

FIG.1

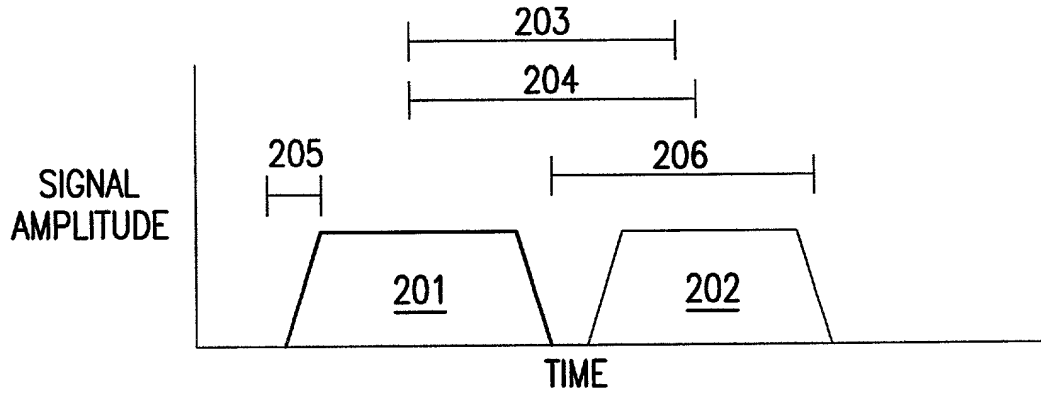


FIG. 2A

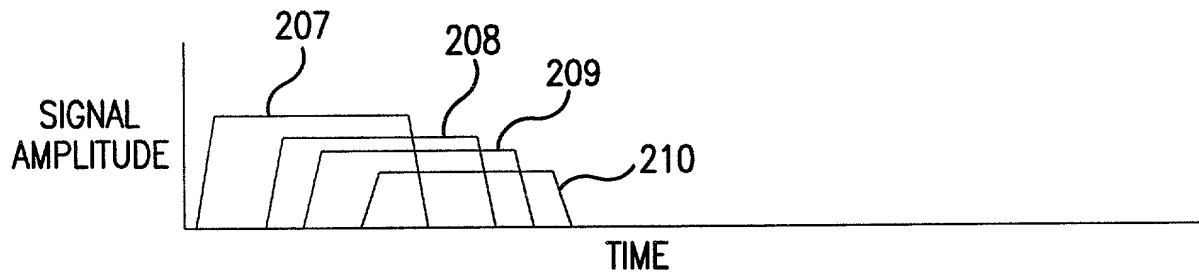


FIG. 2B

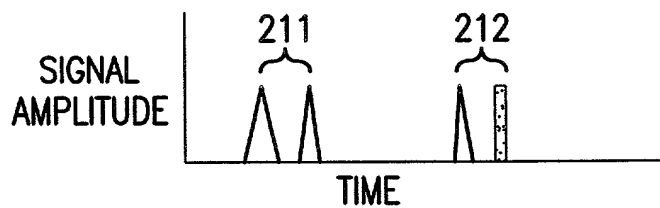
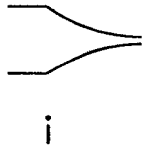
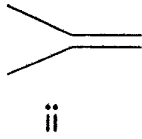


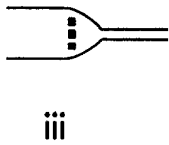
FIG. 2C



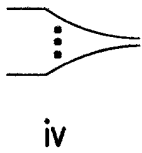
i



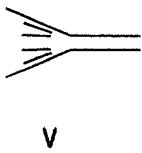
ii



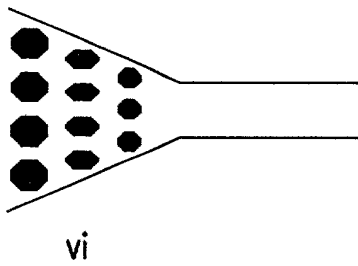
iii



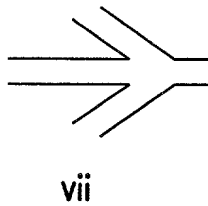
iv



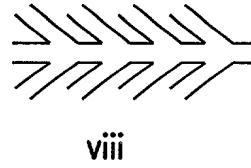
v



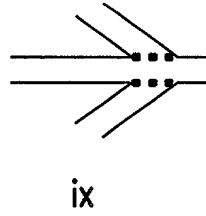
vi



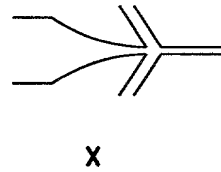
vii



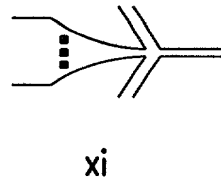
viii



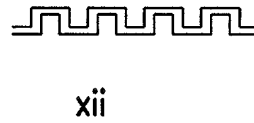
ix



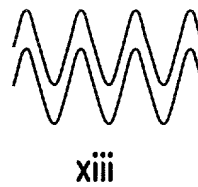
x



xi

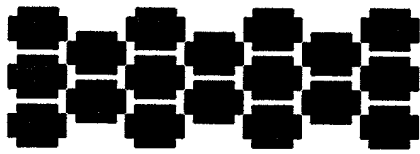


xii

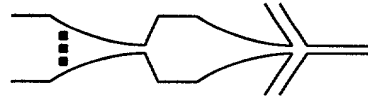


xiii

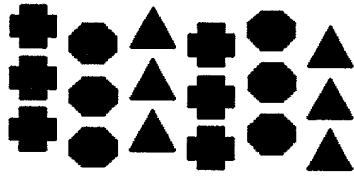
FIG.3A



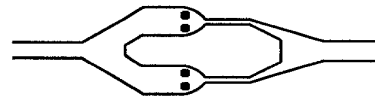
xiv



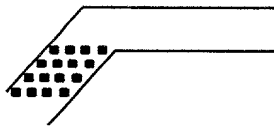
xvix



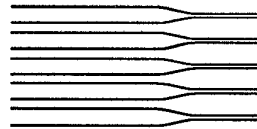
xv



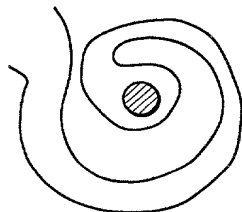
xx



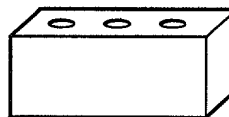
xvi



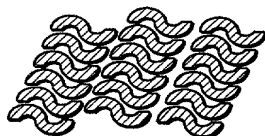
xxi



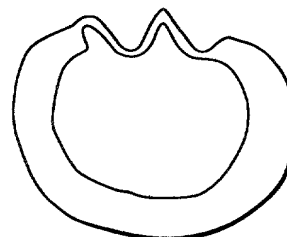
xvii



xxii



xviii



xxiii

FIG.3B

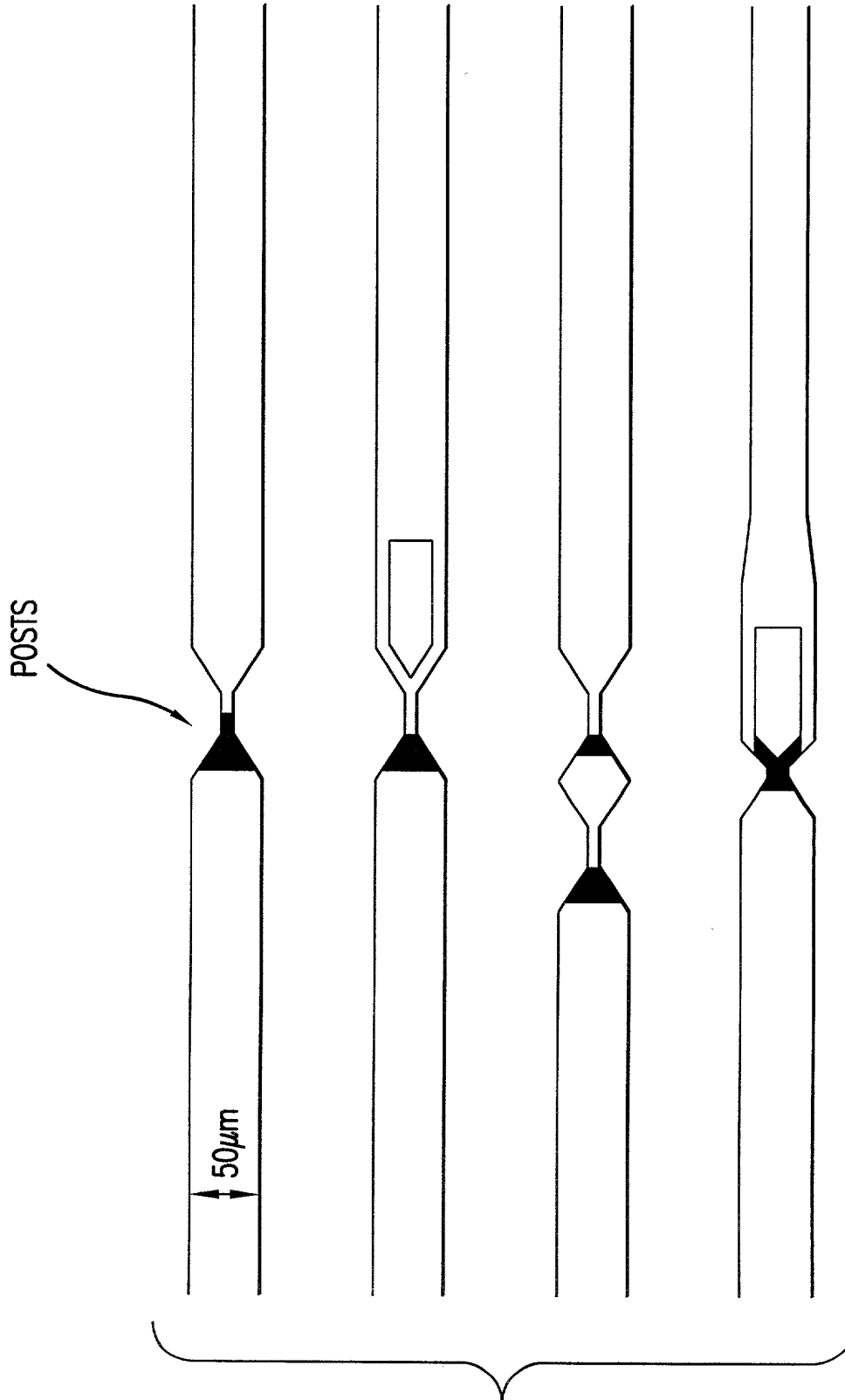


FIG. 4A

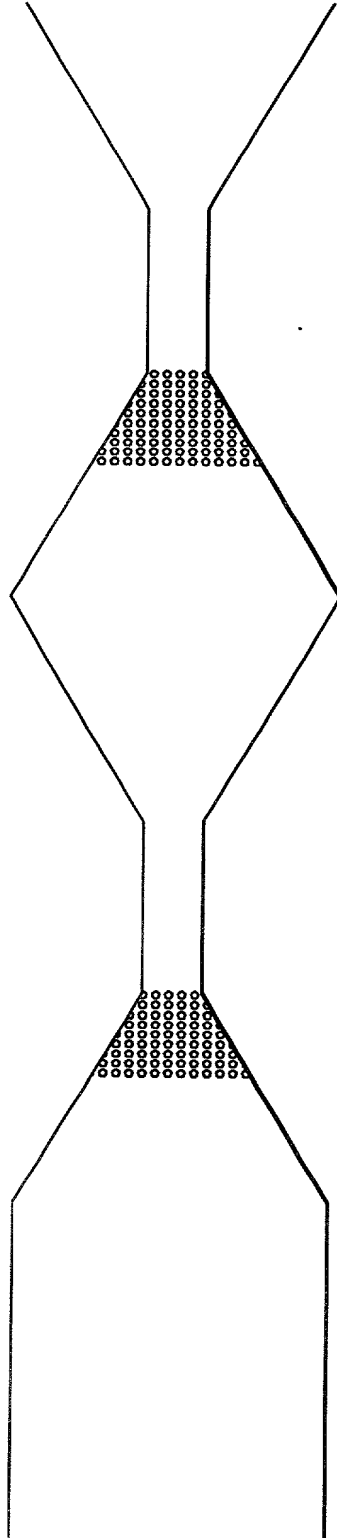


FIG. 4B

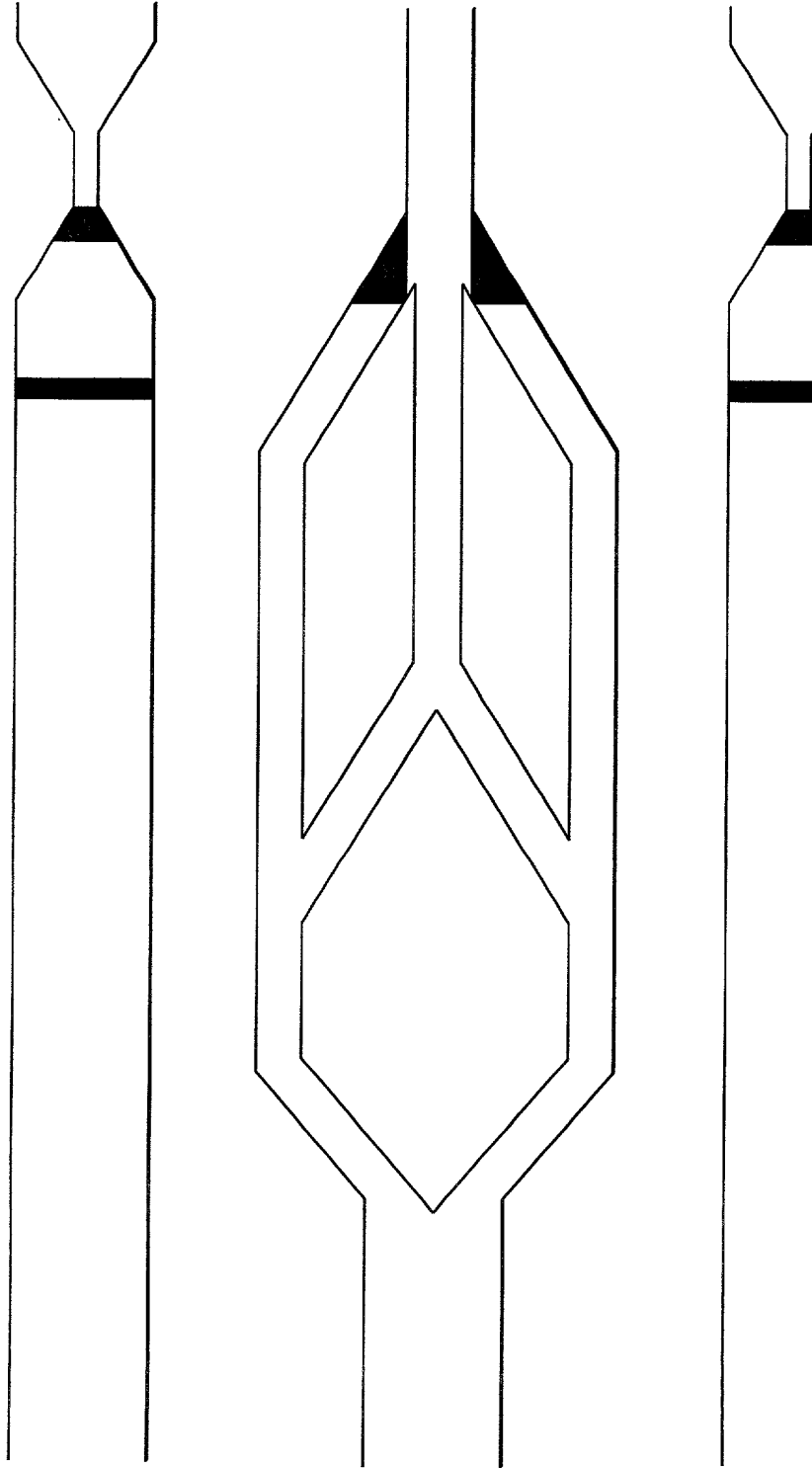


FIG.4C

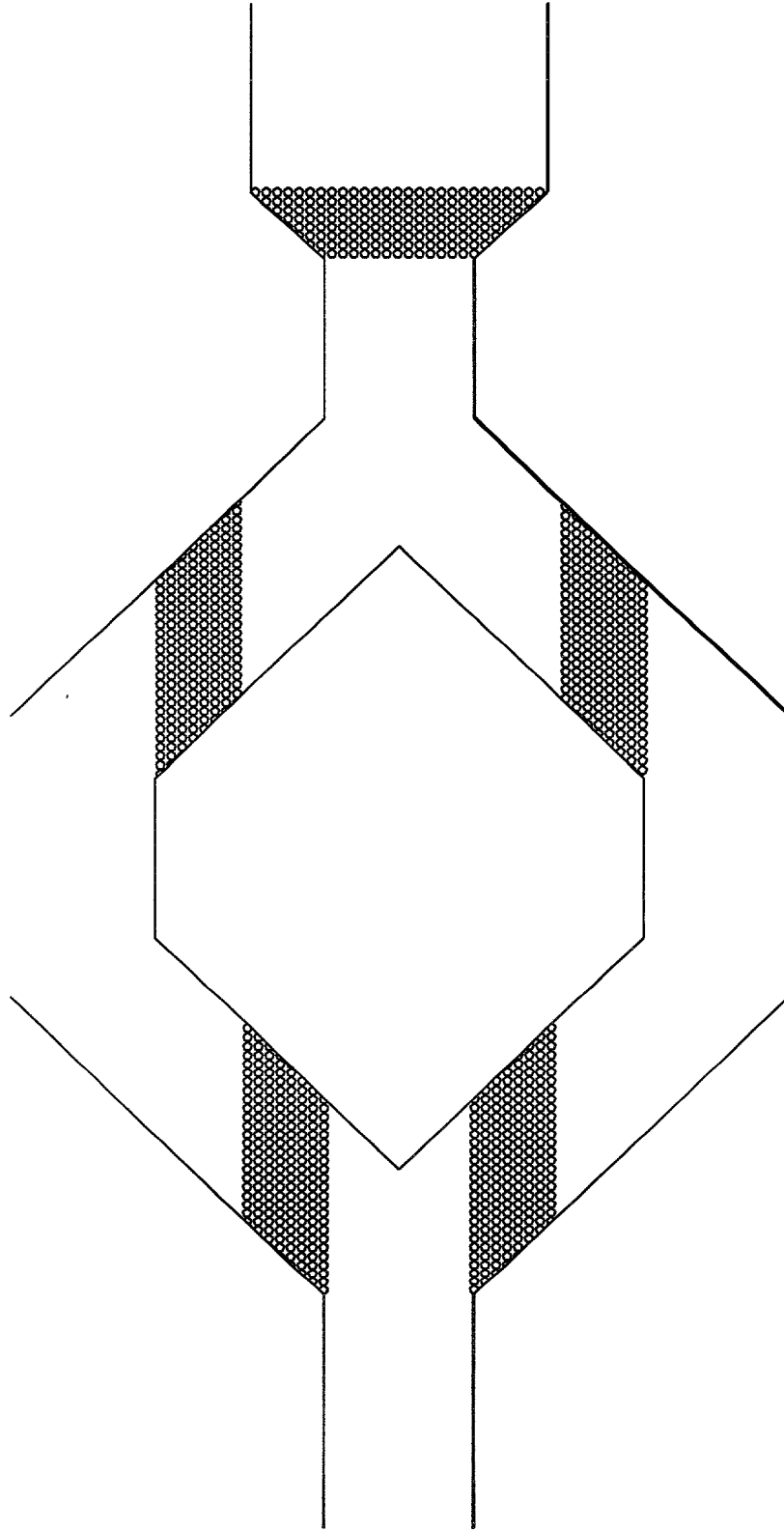


FIG.4D

FIG. 4D

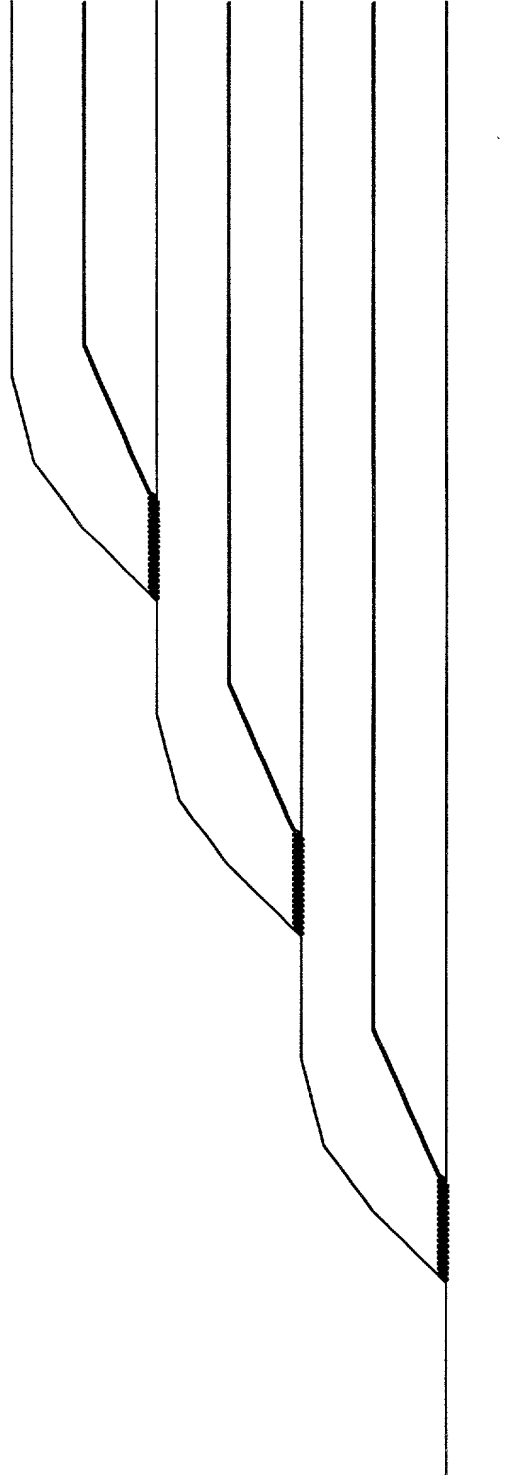


FIG.4E

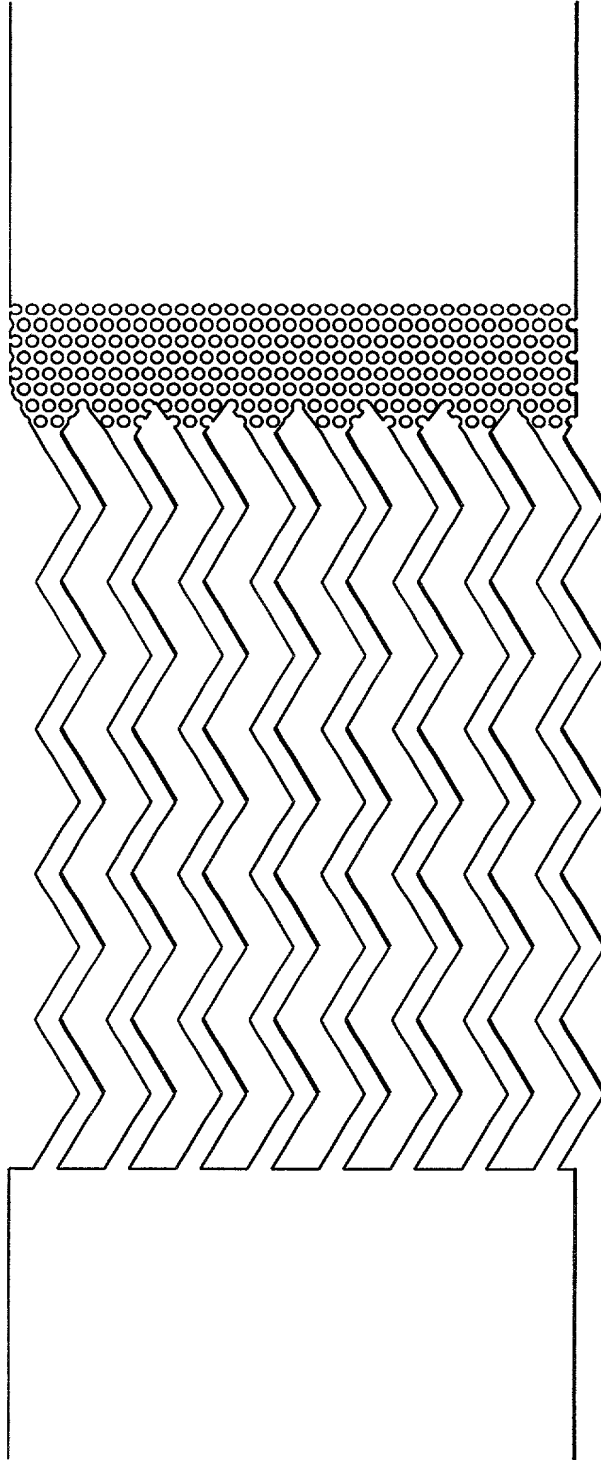


FIG. 4F

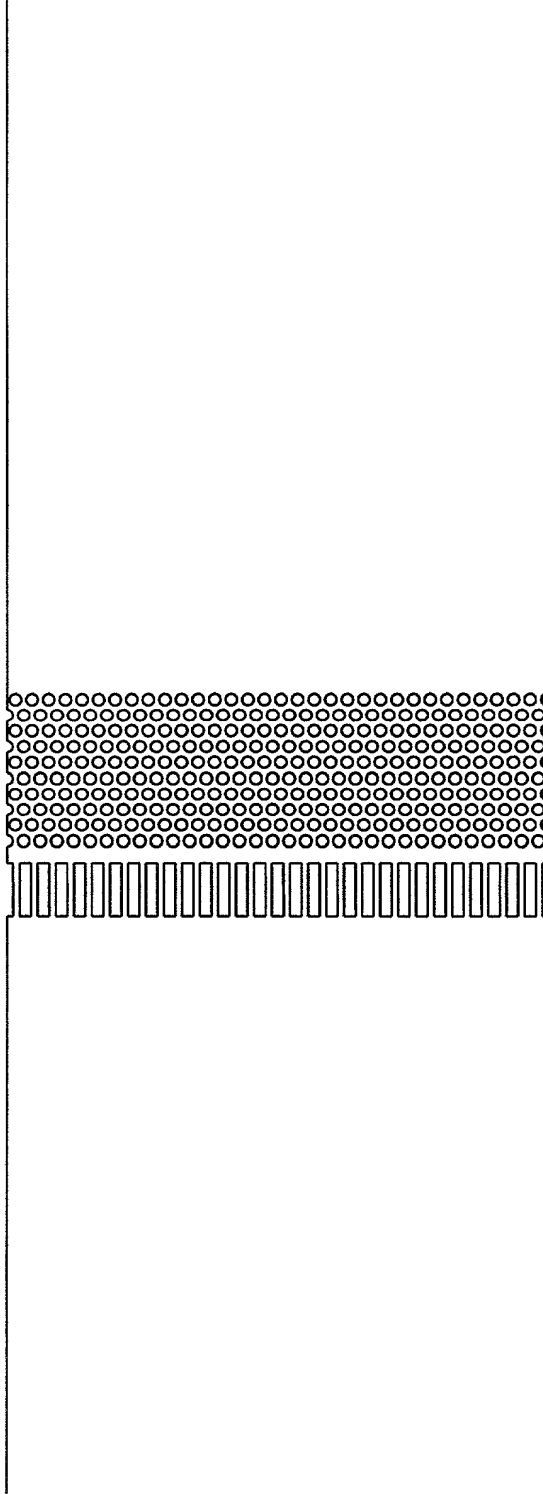


FIG.4G

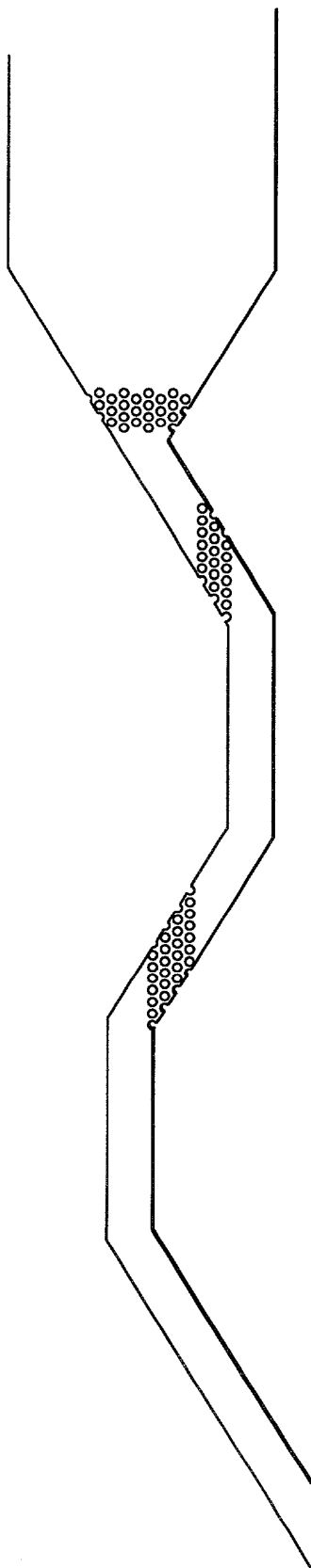


FIG.4H

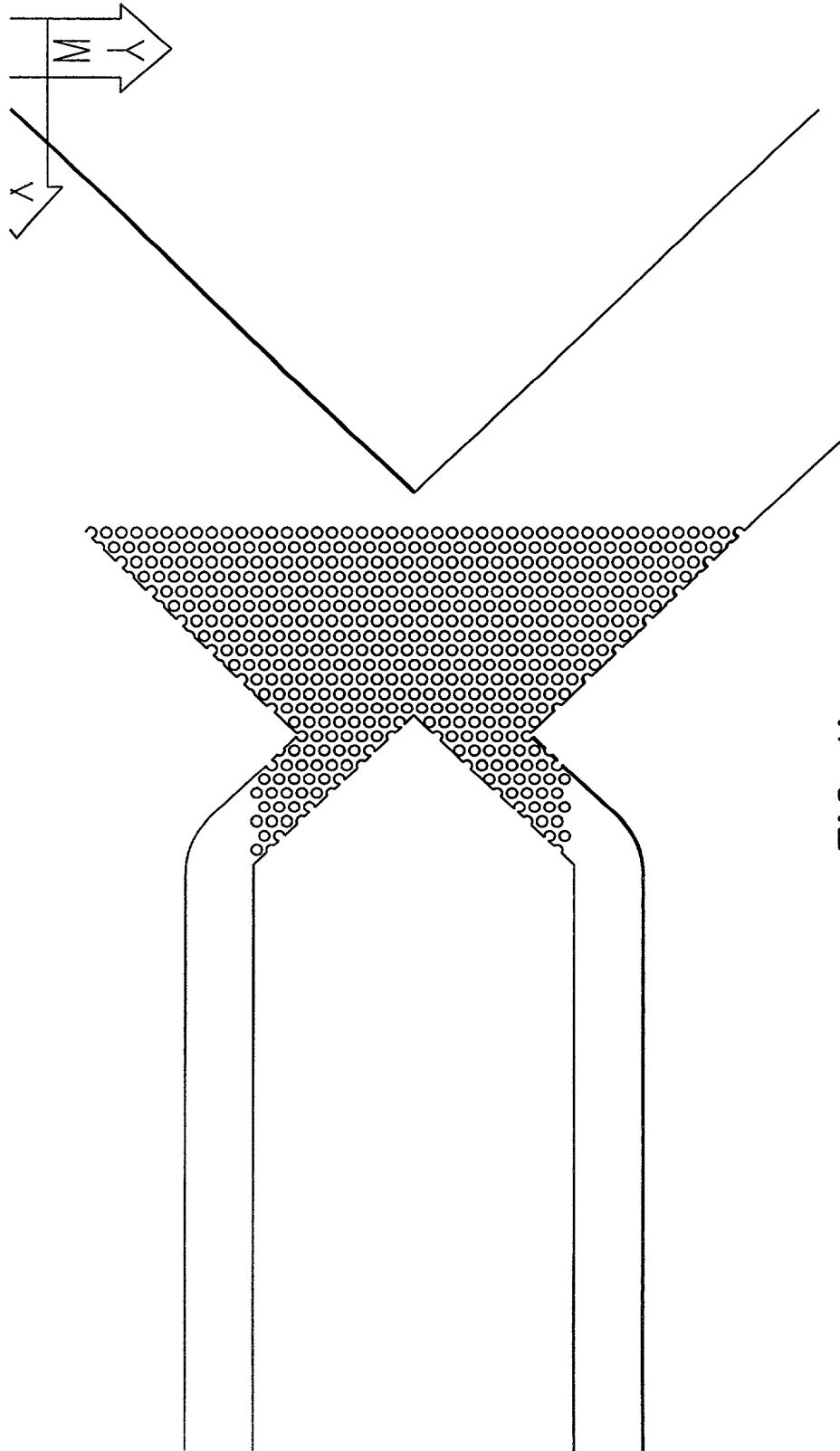


FIG. 4I

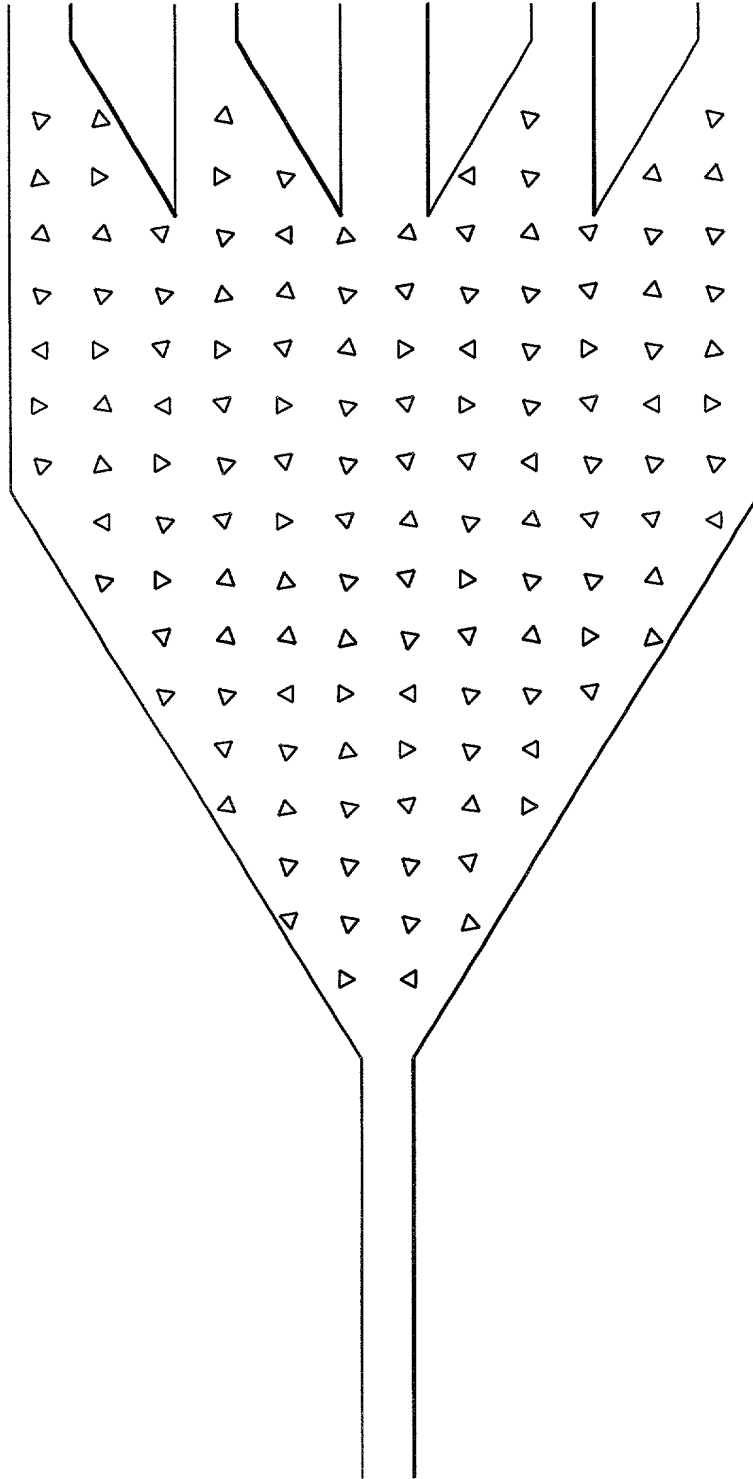


FIG.4J

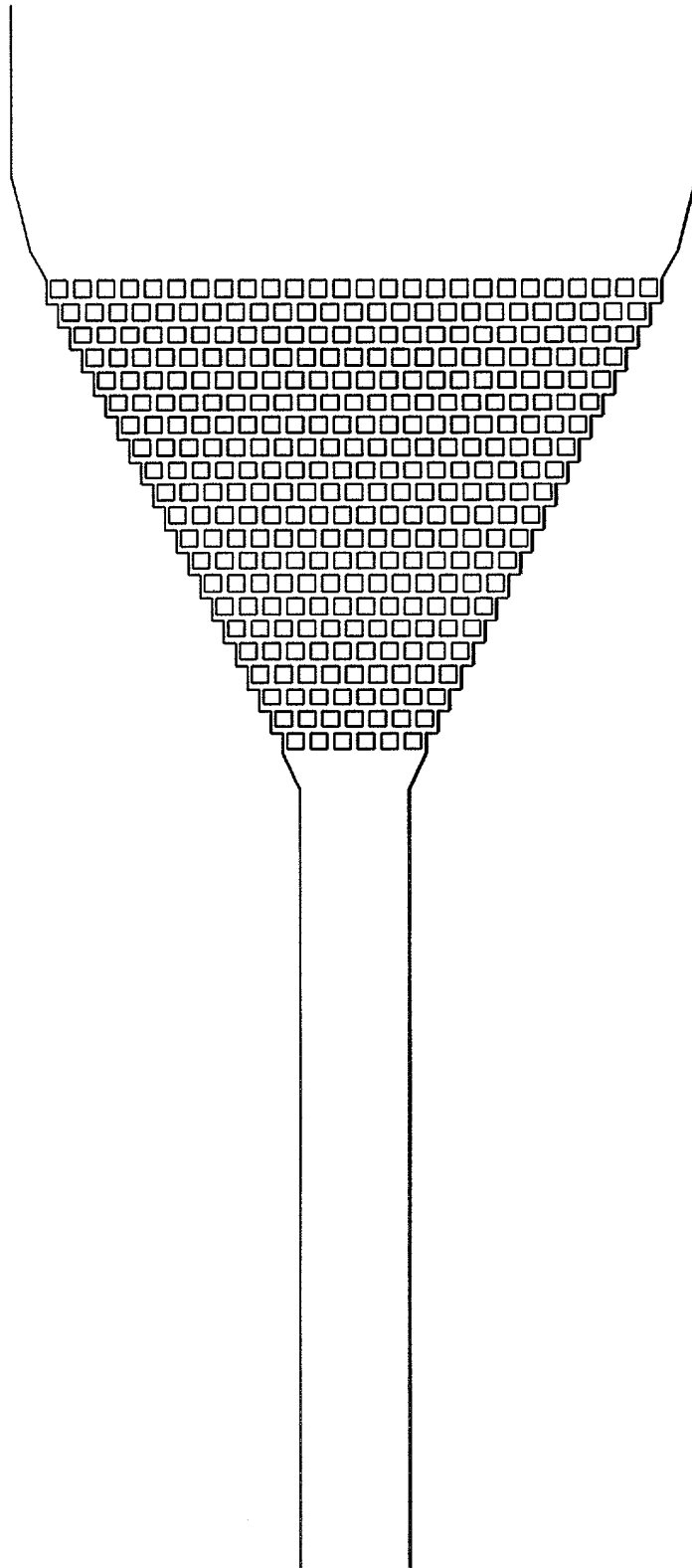


FIG. 4K

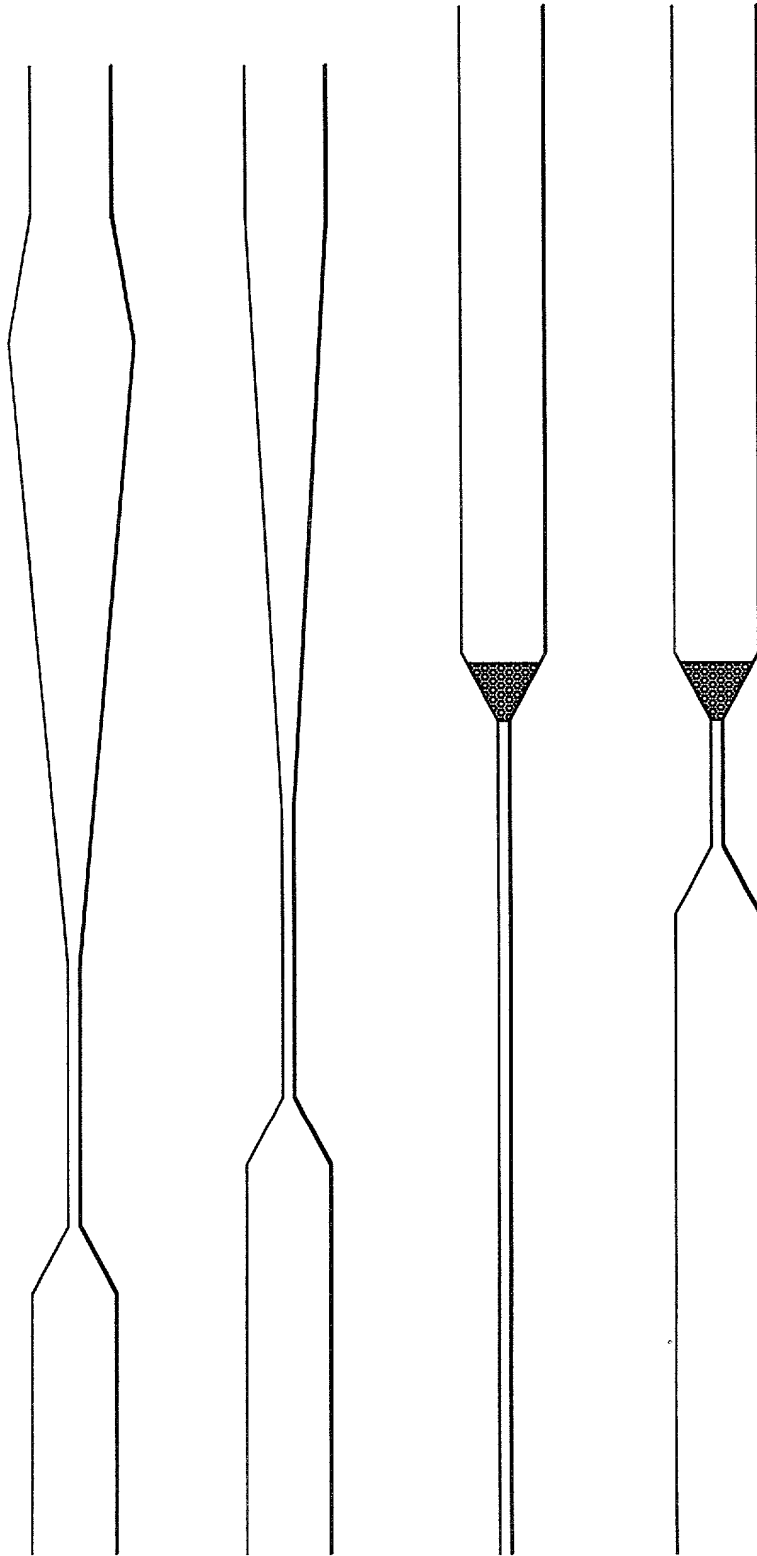


FIG.4L

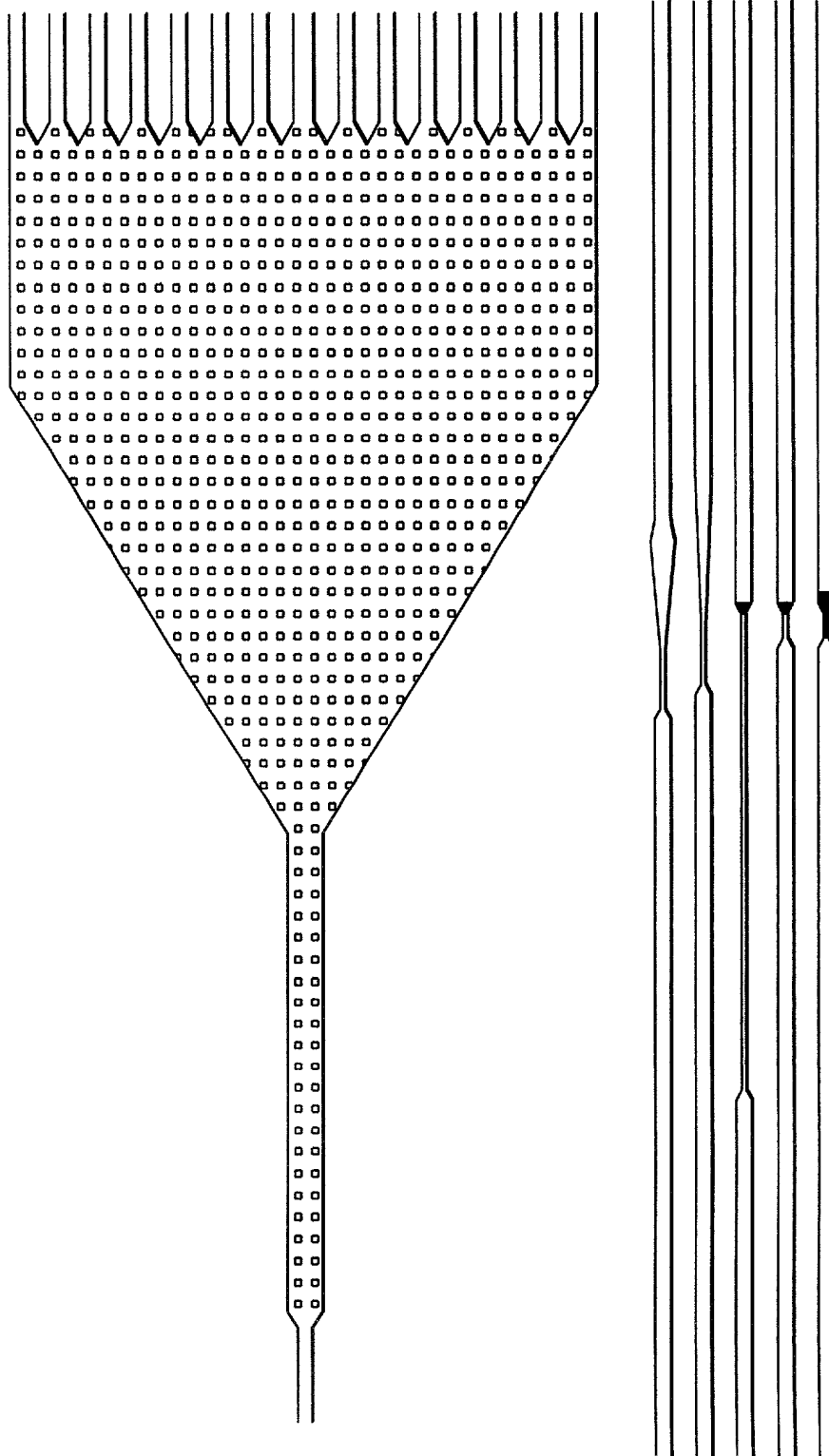


FIG. 4M

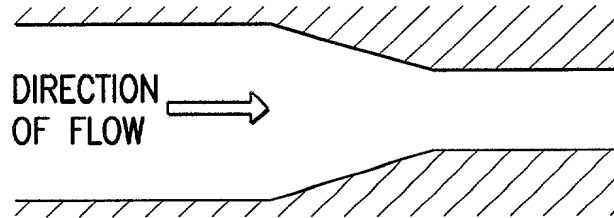


FIG.5

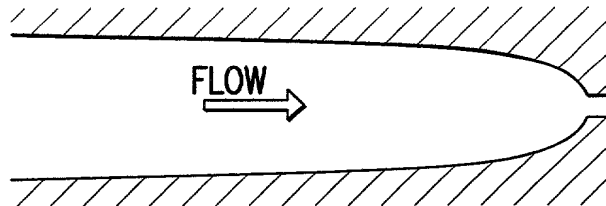


FIG.6

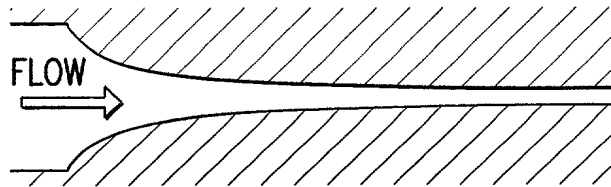


FIG.7

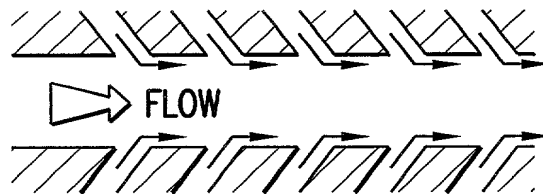


FIG.8

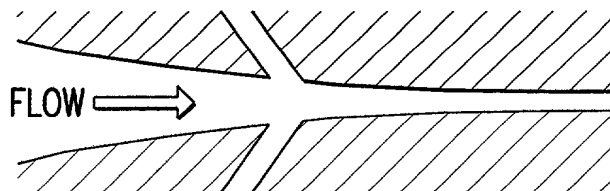


FIG.9

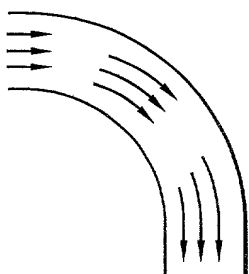


FIG.10A

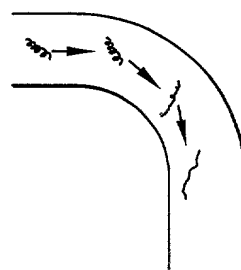


FIG.10B

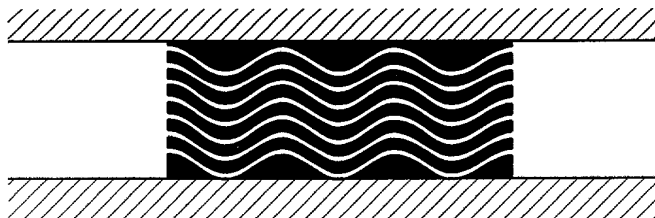


FIG.11

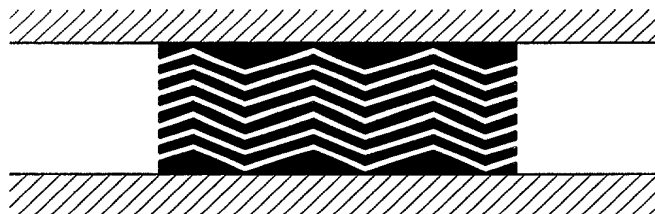


FIG.12

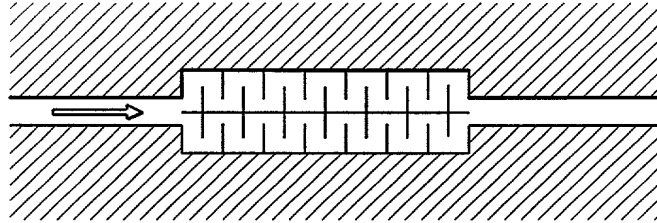


FIG. 13

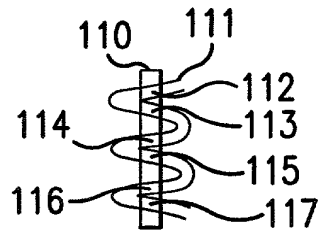


FIG. 14

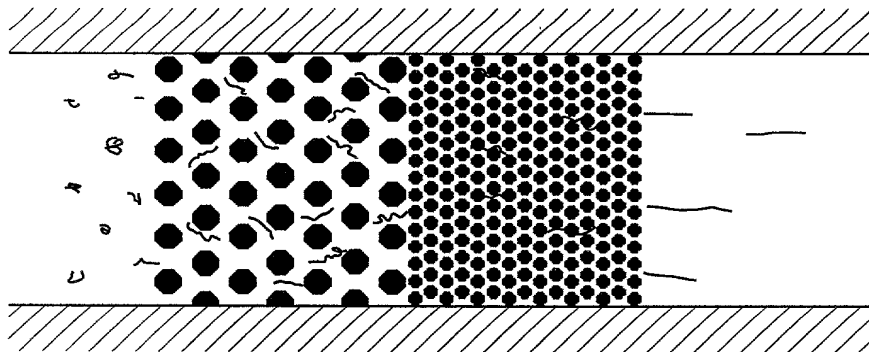


FIG. 15

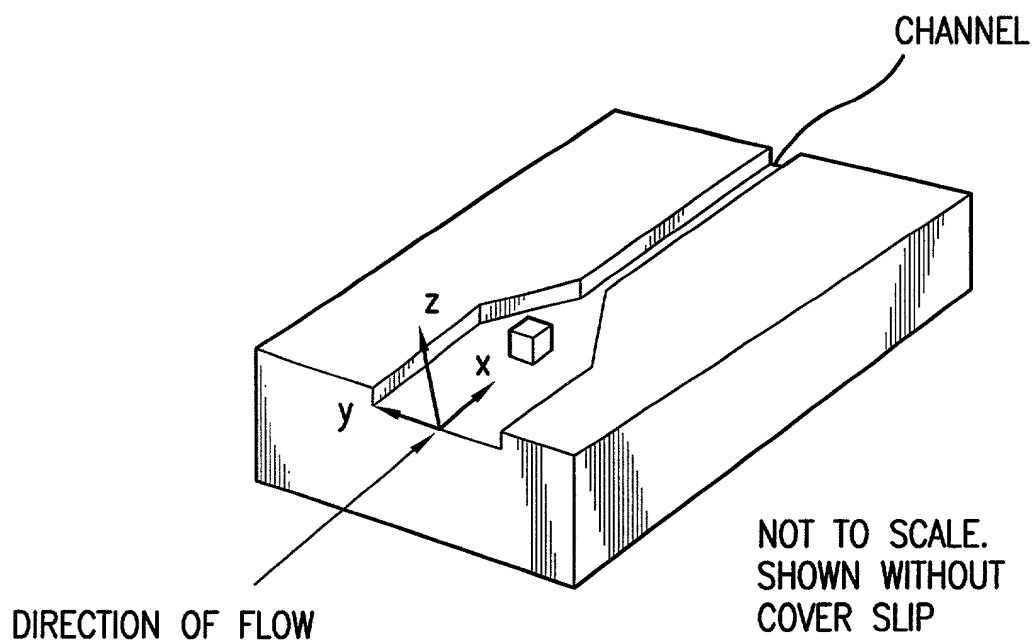


FIG.16

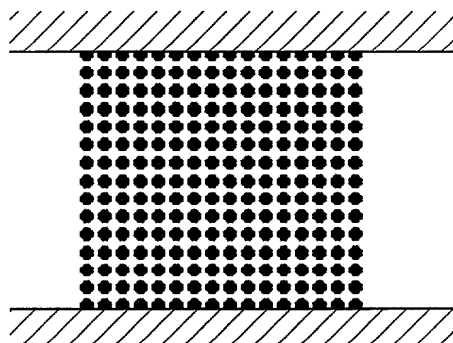


FIG. 17A

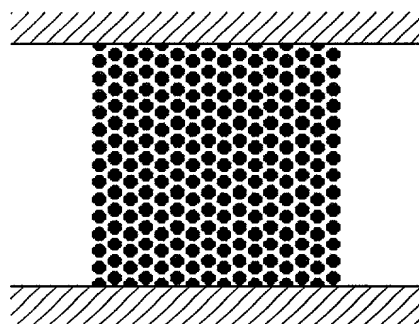


FIG. 17B

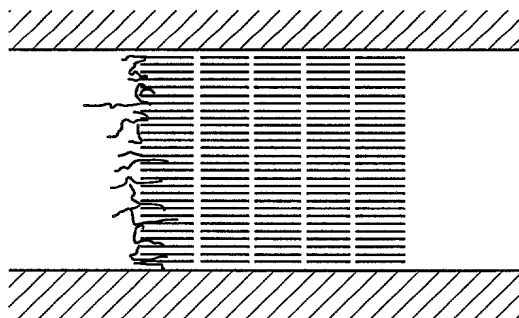


FIG. 18

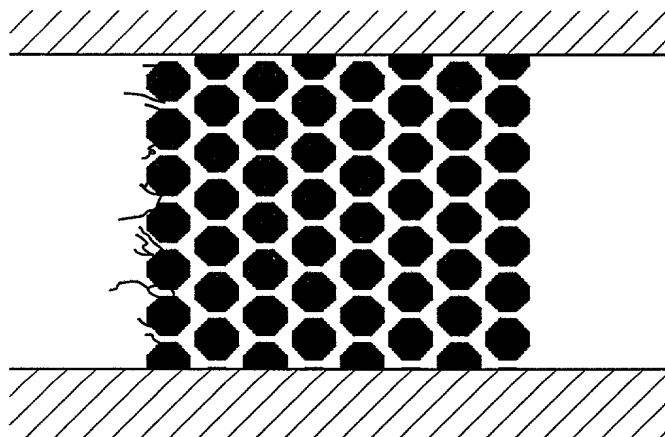


FIG.19

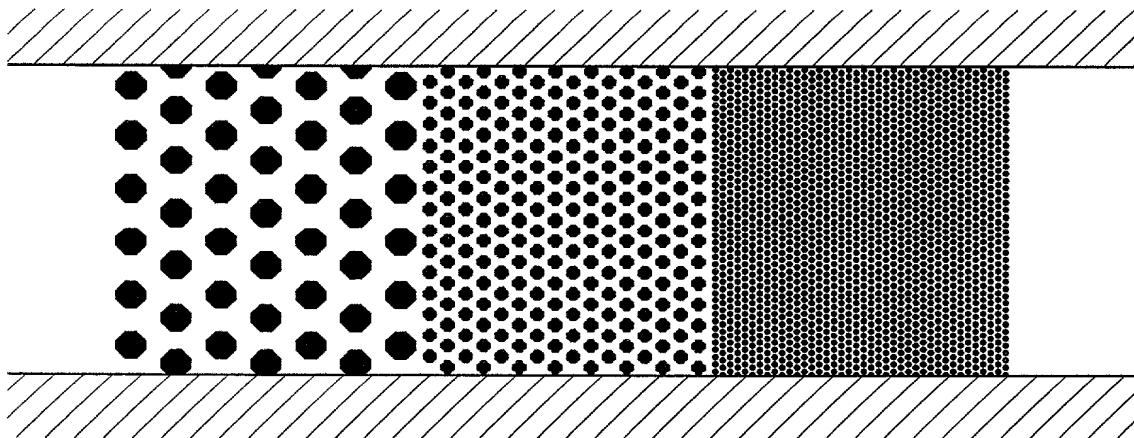
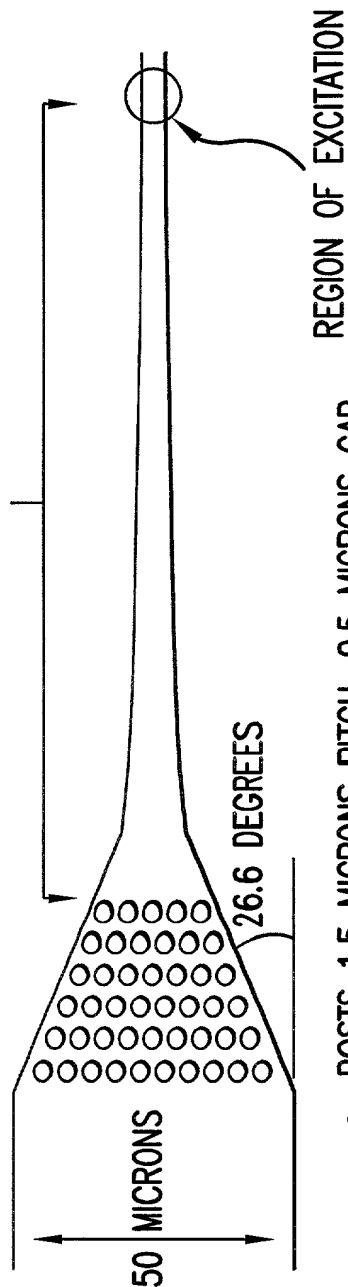


FIG.20

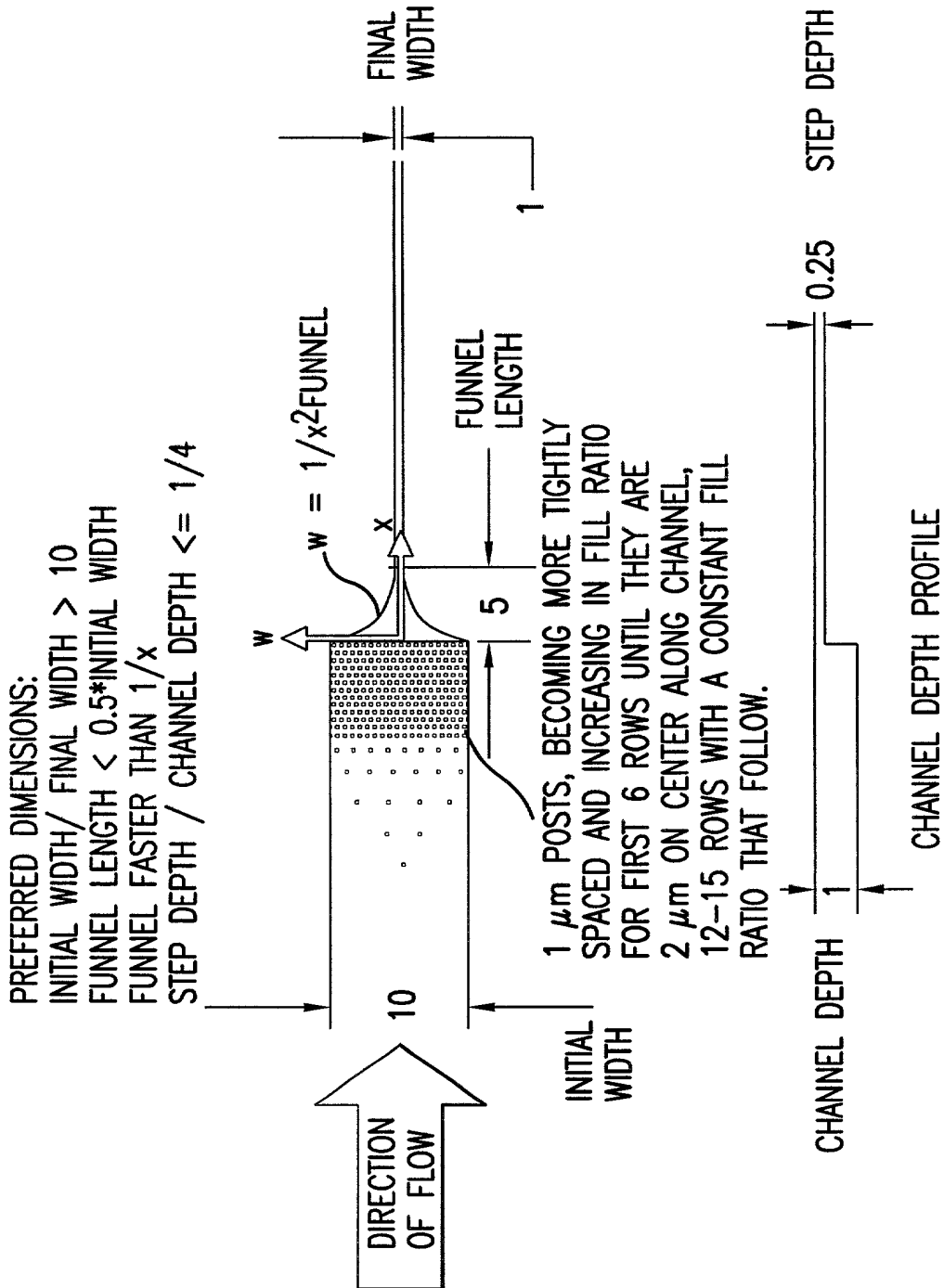
- REGION OF CONSTANT X-DIRECTION SHEAR TO MAINTAIN THE POLYMER IN EXTENDED CONFORMATION AFTER RELEASE FROM THE POSTS

- DISTANCE FROM END OF POST FIELD TO REGION OF EXCITATION 1-3 mm



- POSTS 1.5 MICRONS PITCH, 0.5 MICRONS GAP BETWEEN POSTS
- STAGGERED POST ARRANGEMENT
- 12-15 ROWS OF POSTS

FIG.21



NOT TO SCALE, ALL DIMENSIONS IN μm

FIG.22

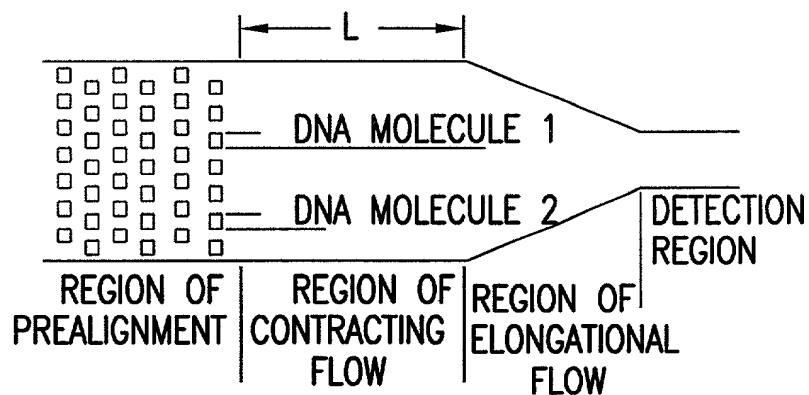


FIG.23

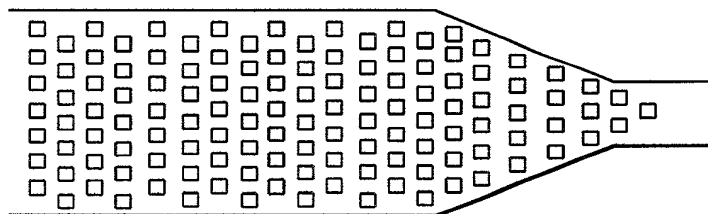


FIG.24

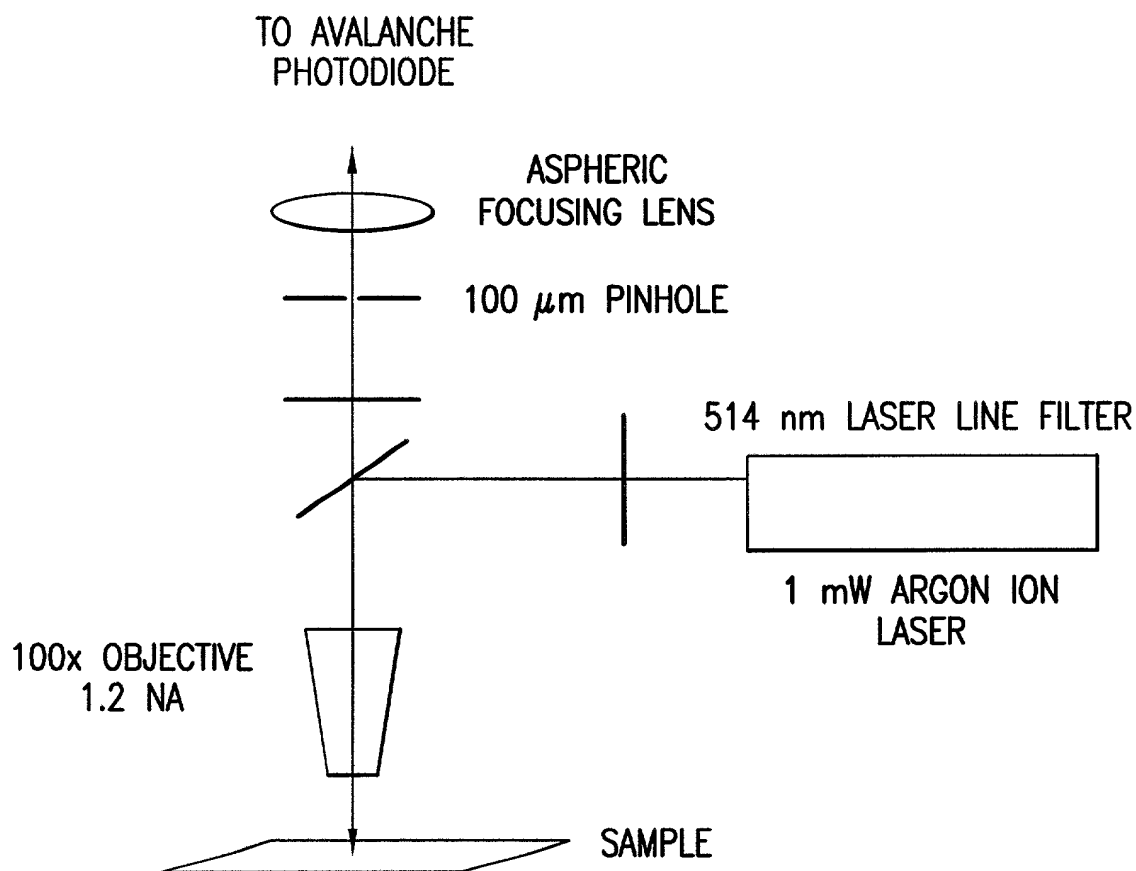


FIG.25

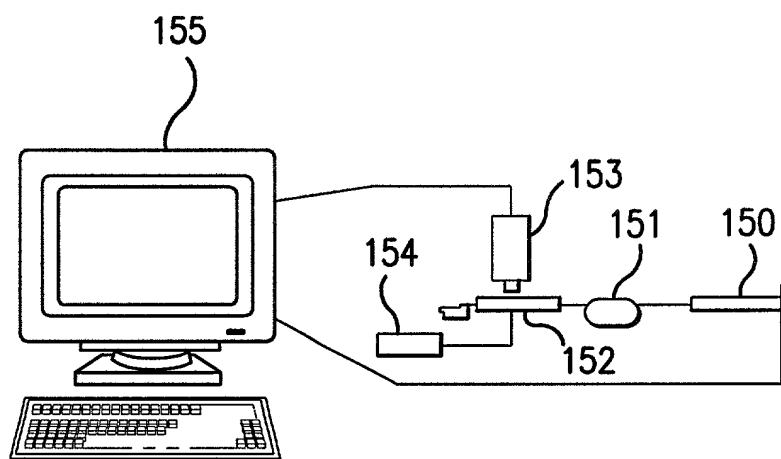


FIG.26

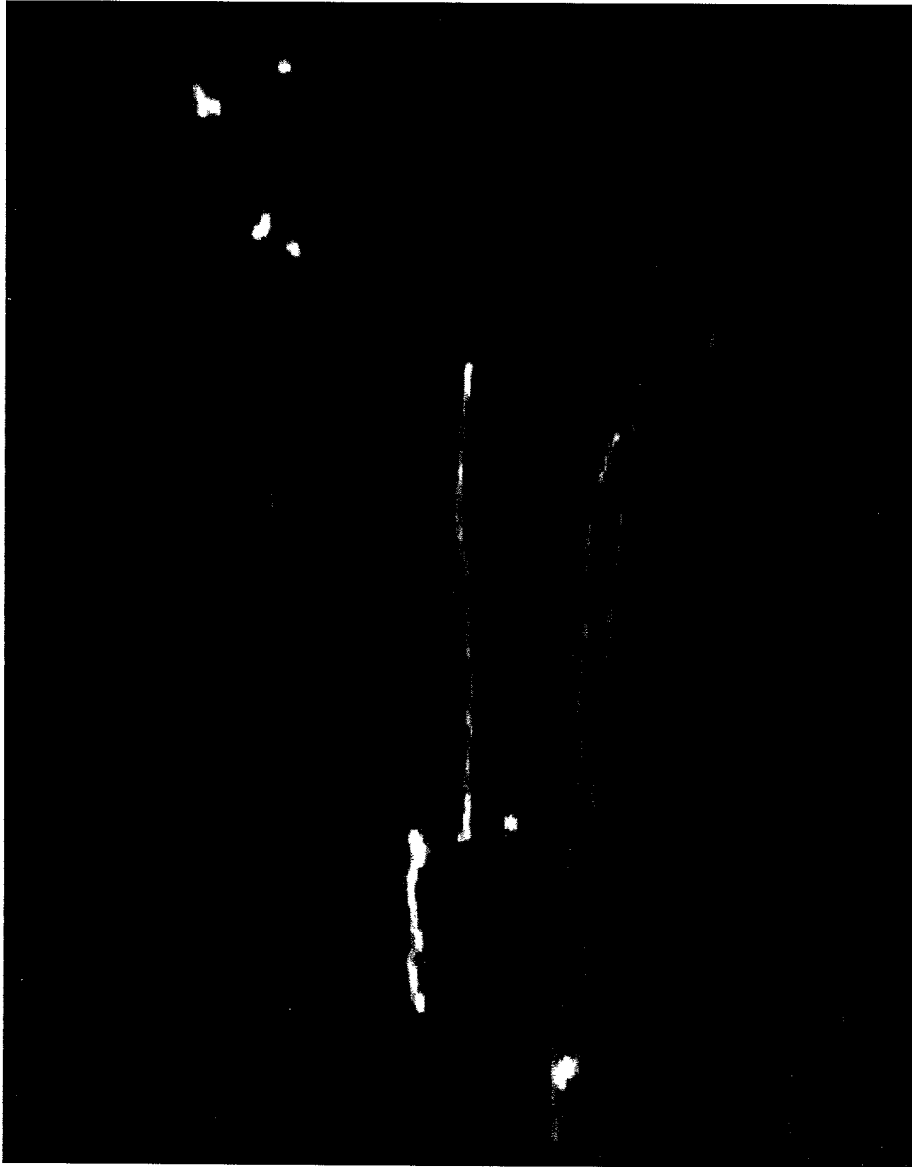


FIG.27

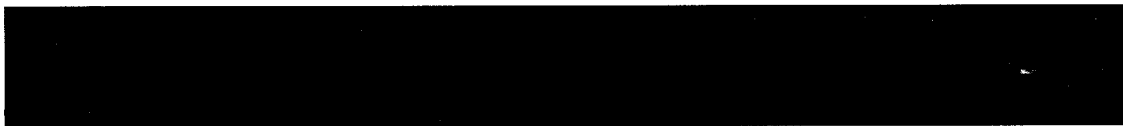


FIG.28A

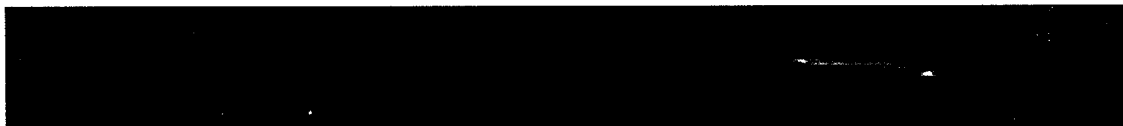


FIG.28B



FIG.28C



FIG.28D



FIG.28E

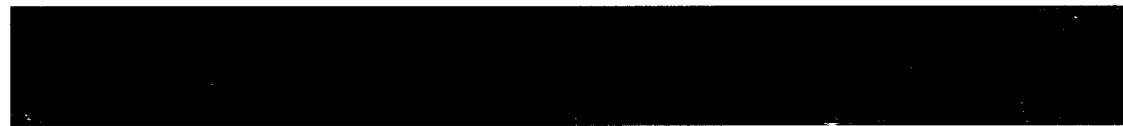


FIG.28F

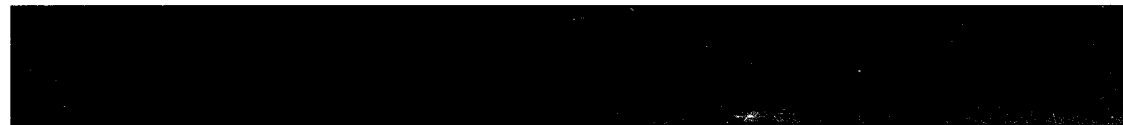


FIG.28G

10066-021-999 09/783,472 Wellman et al.
Methods and Apparatuses for
Characterization of Single Polymers

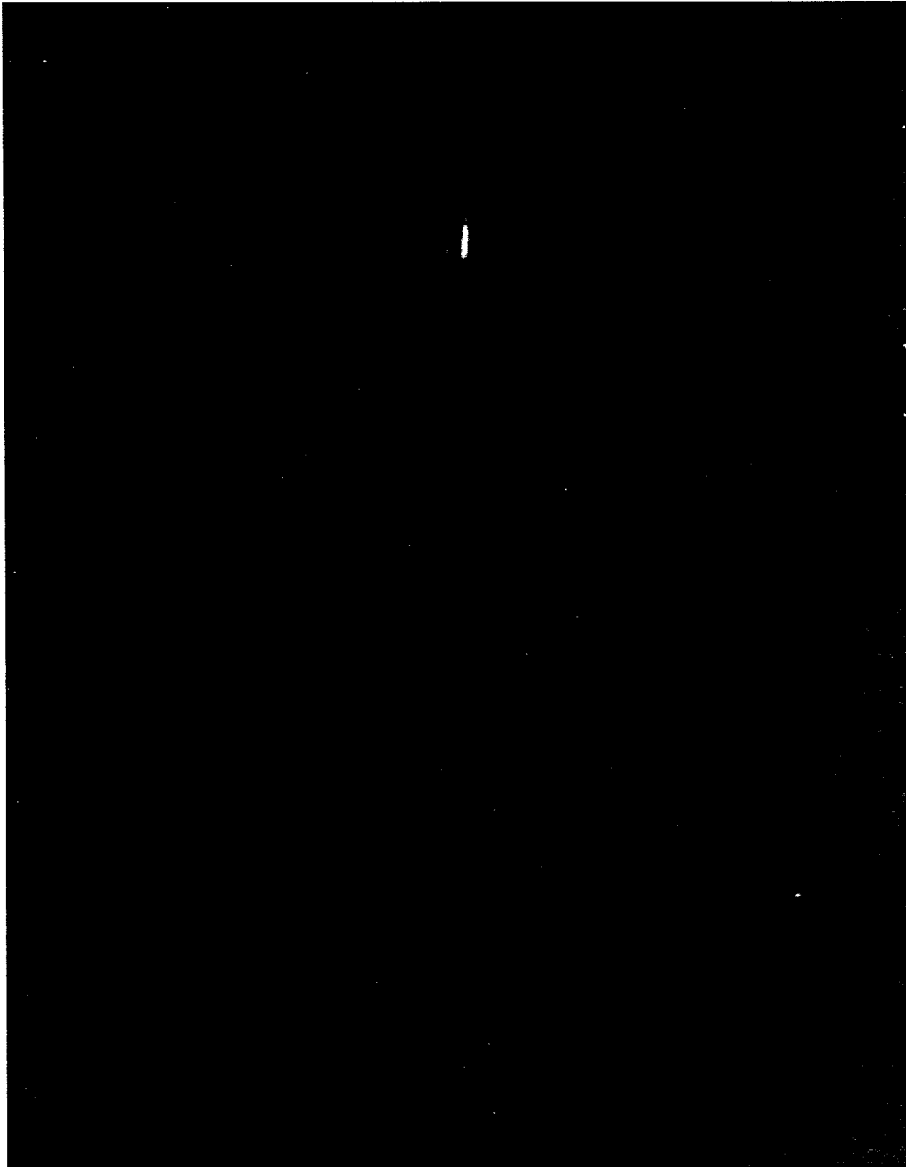


FIG. 29

10066-021-999
09/783,472
Wellman et al.
Methods and Apparatuses for
Characterization of Single Polymers

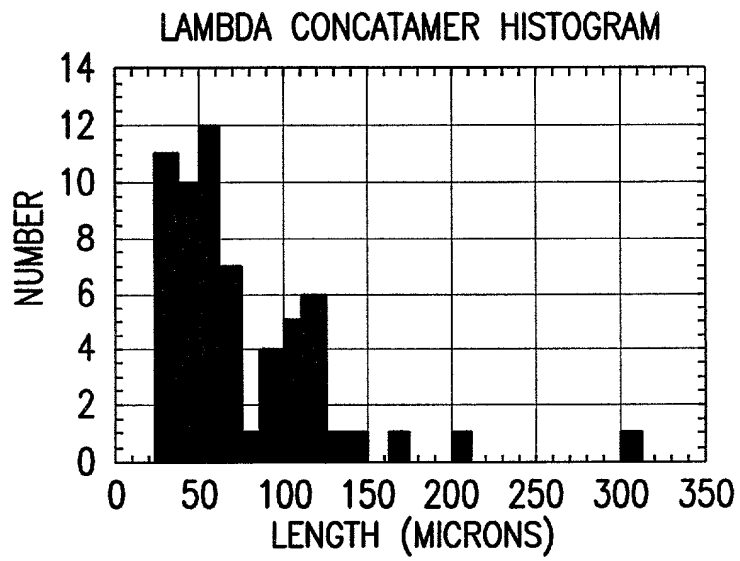


FIG.30

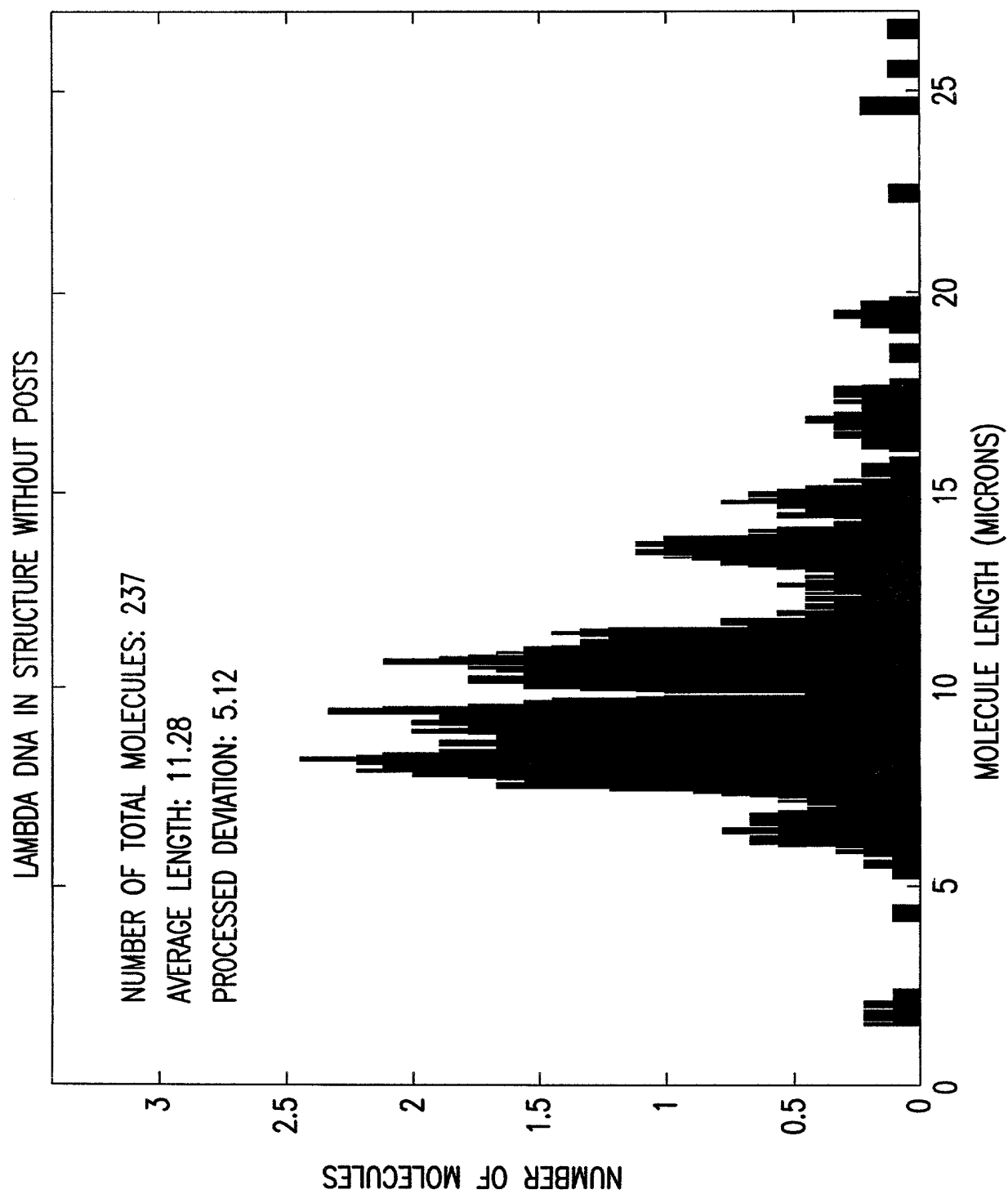


FIG. 31A

LAMBDA DNA IN STRUCTURE WITH POSTS

NUMBER OF TOTAL MOLECULES: 110
AVERAGE LENGTH: 18.71
PROCESSED DEVIATION: 3.08

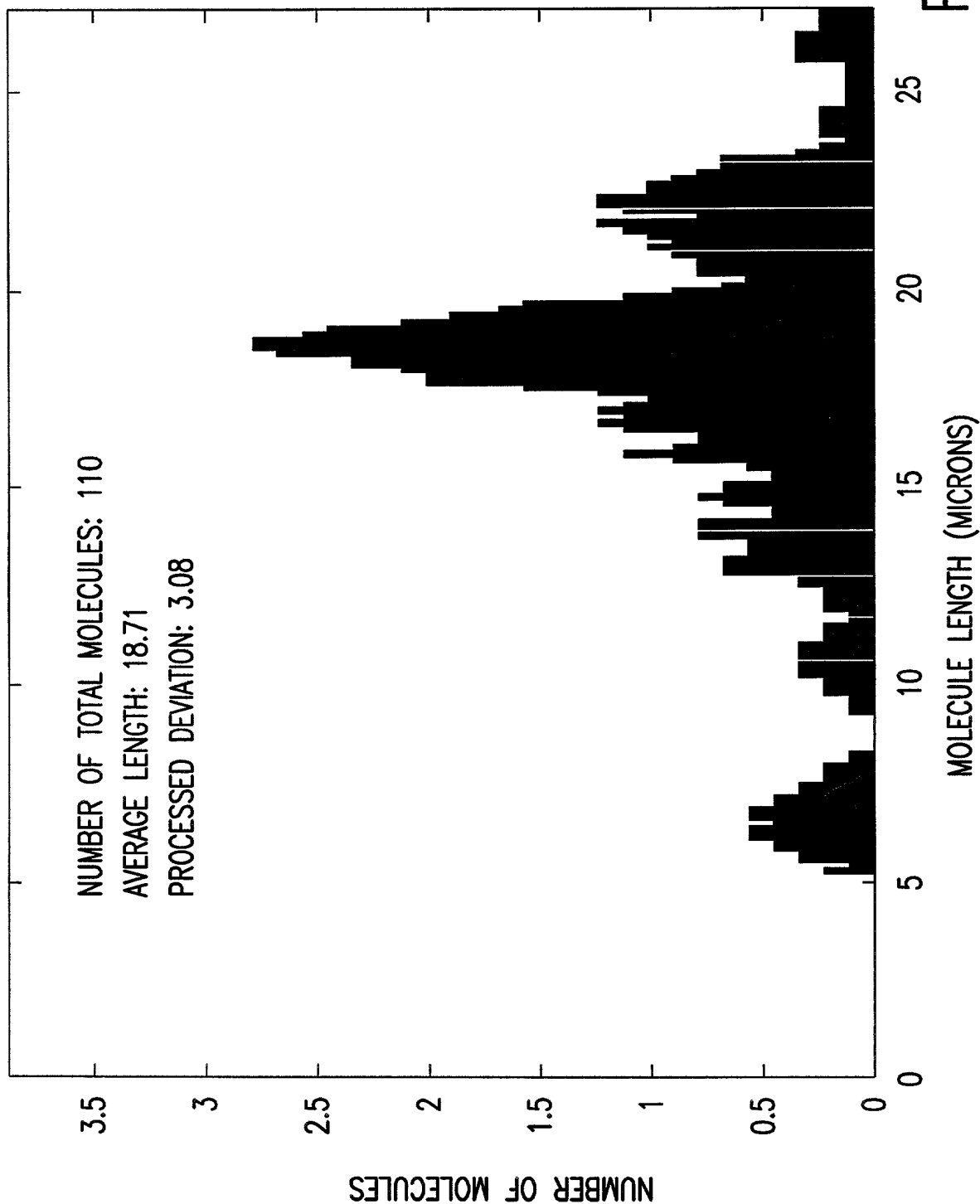


FIG. 31B

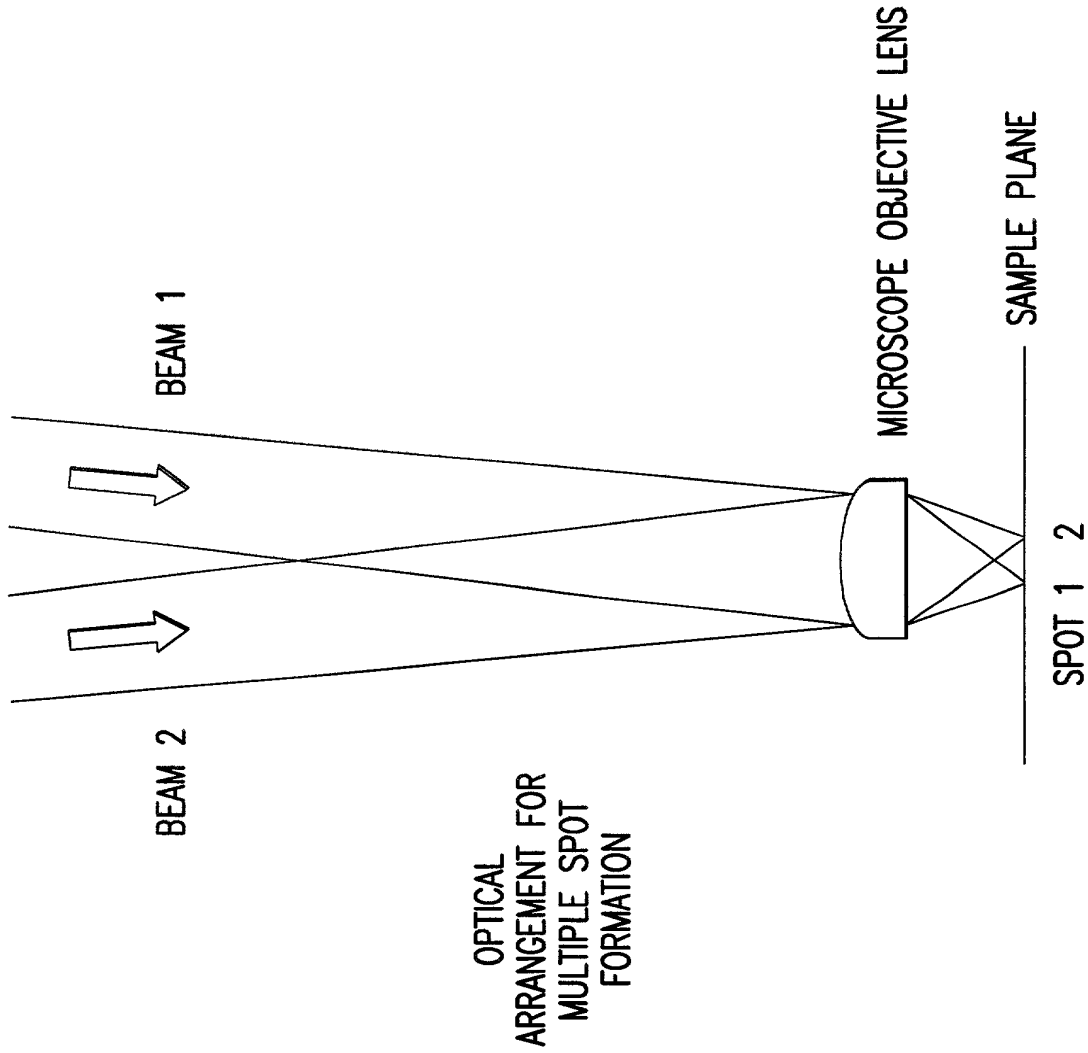


FIG.32

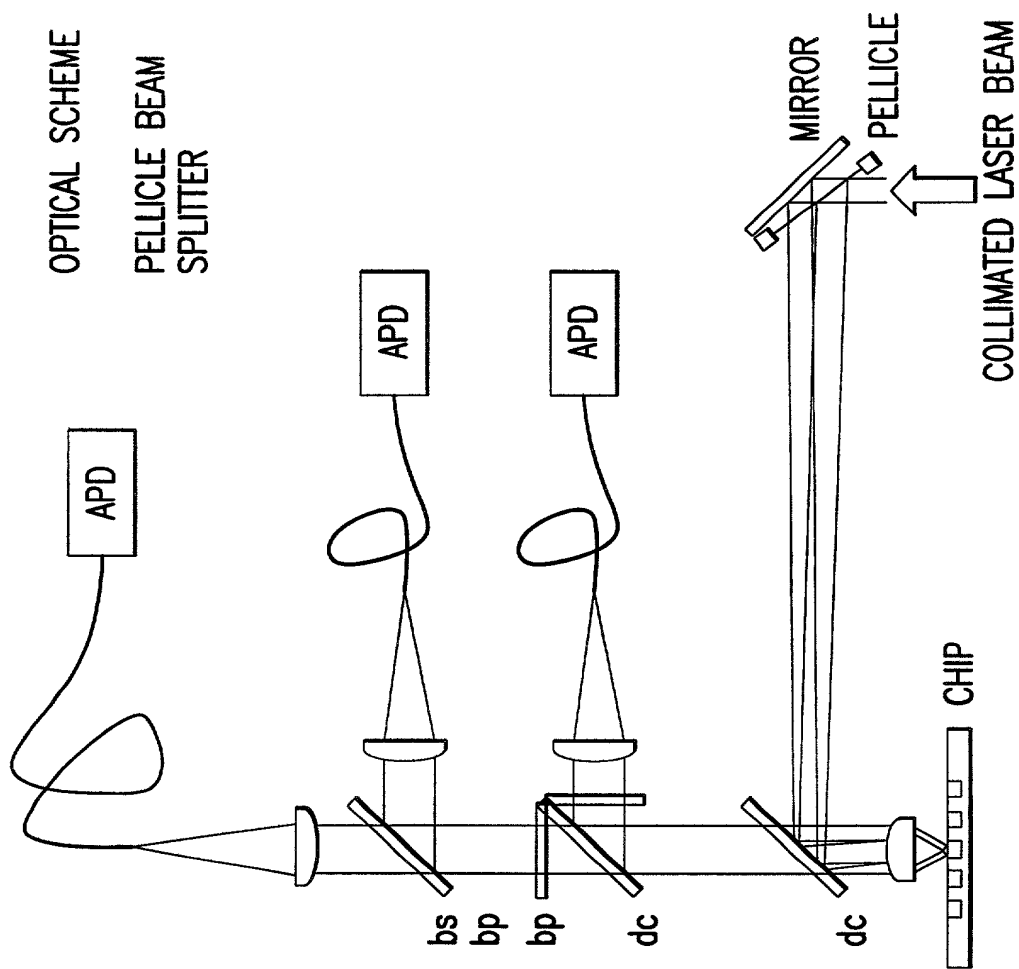


FIG.33

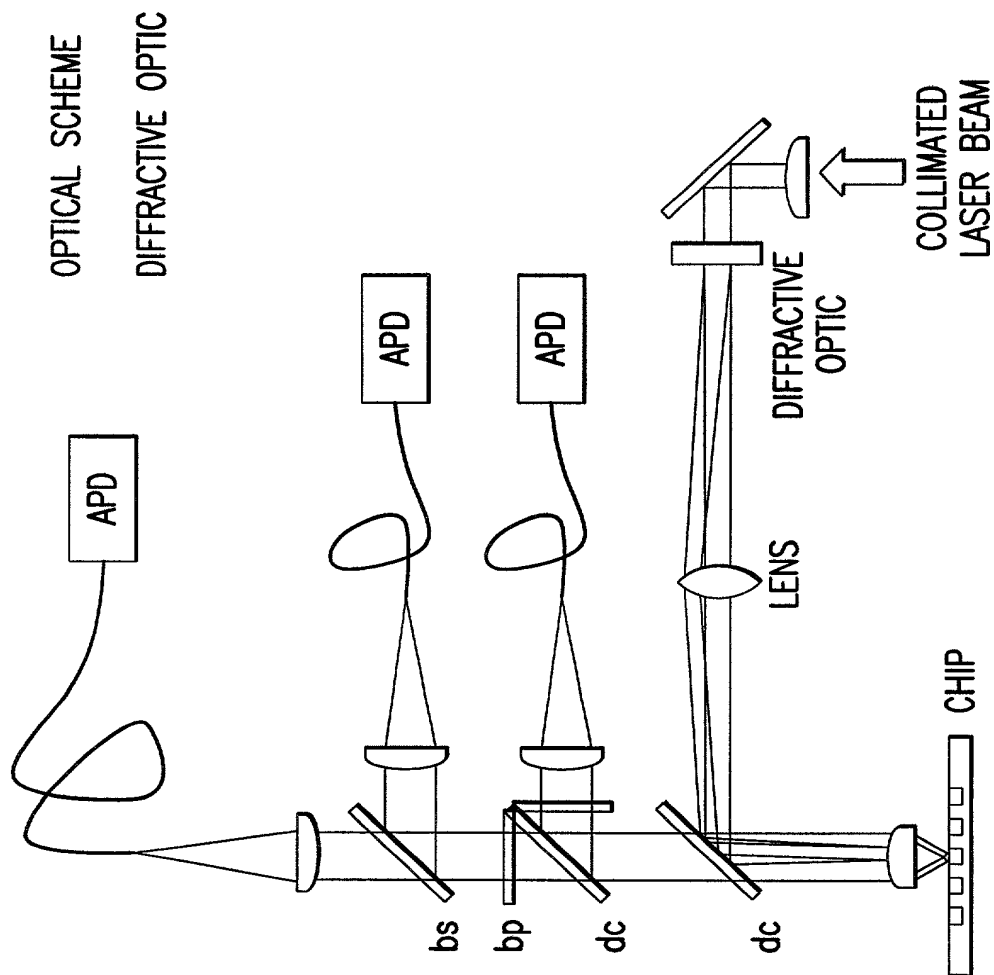


FIG.34

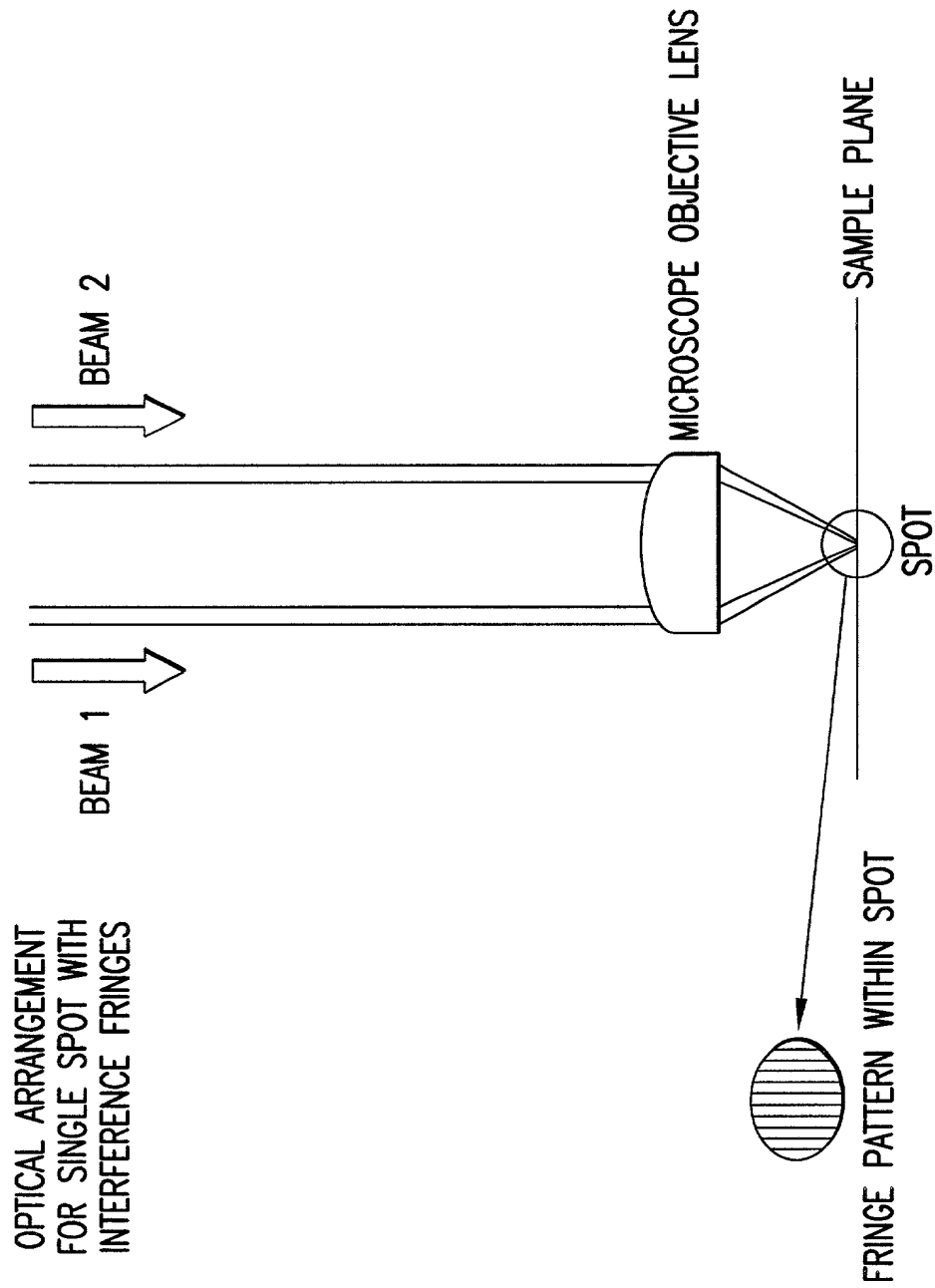


FIG.35

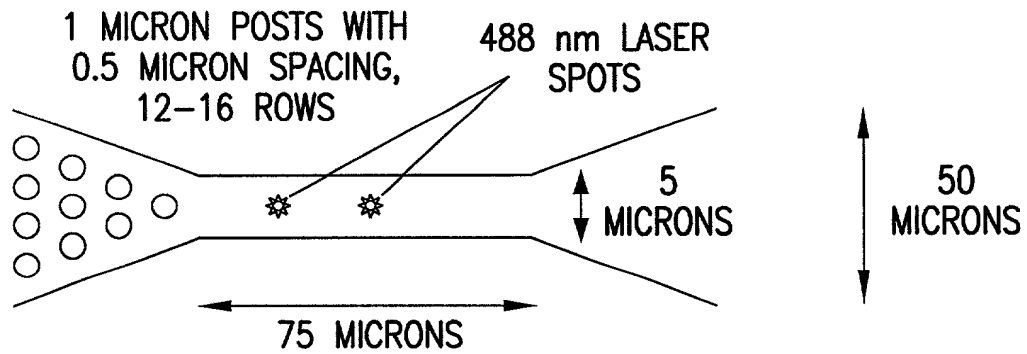


FIG.36

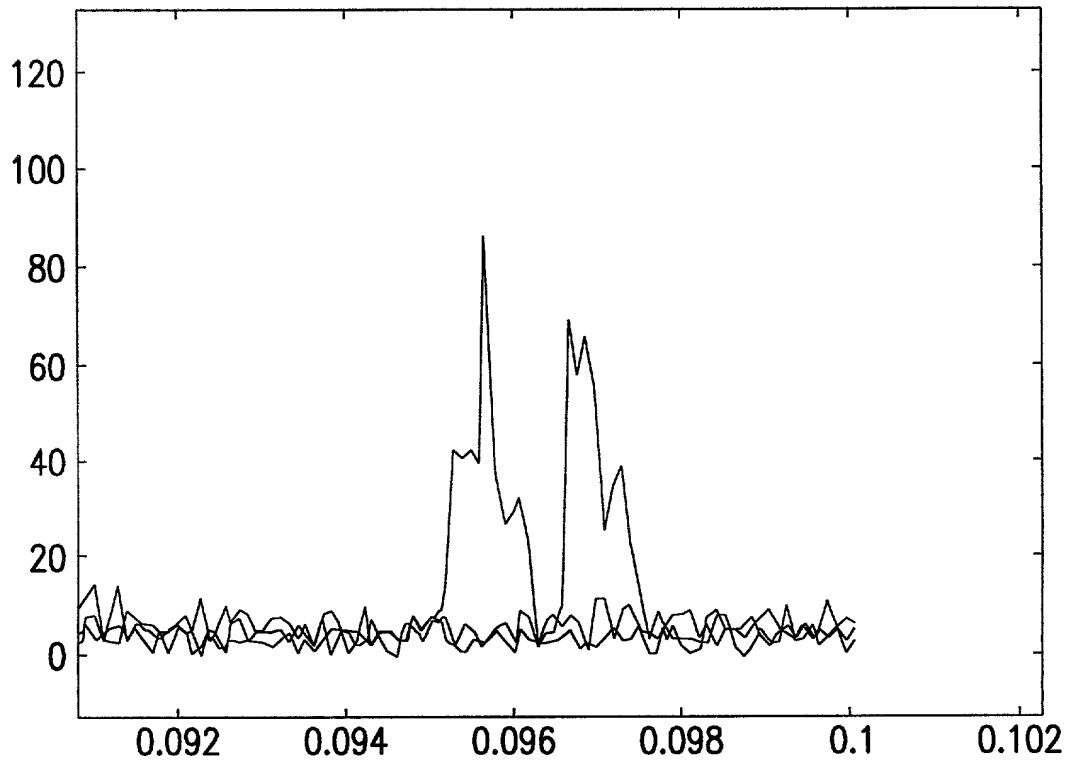


FIG.37A

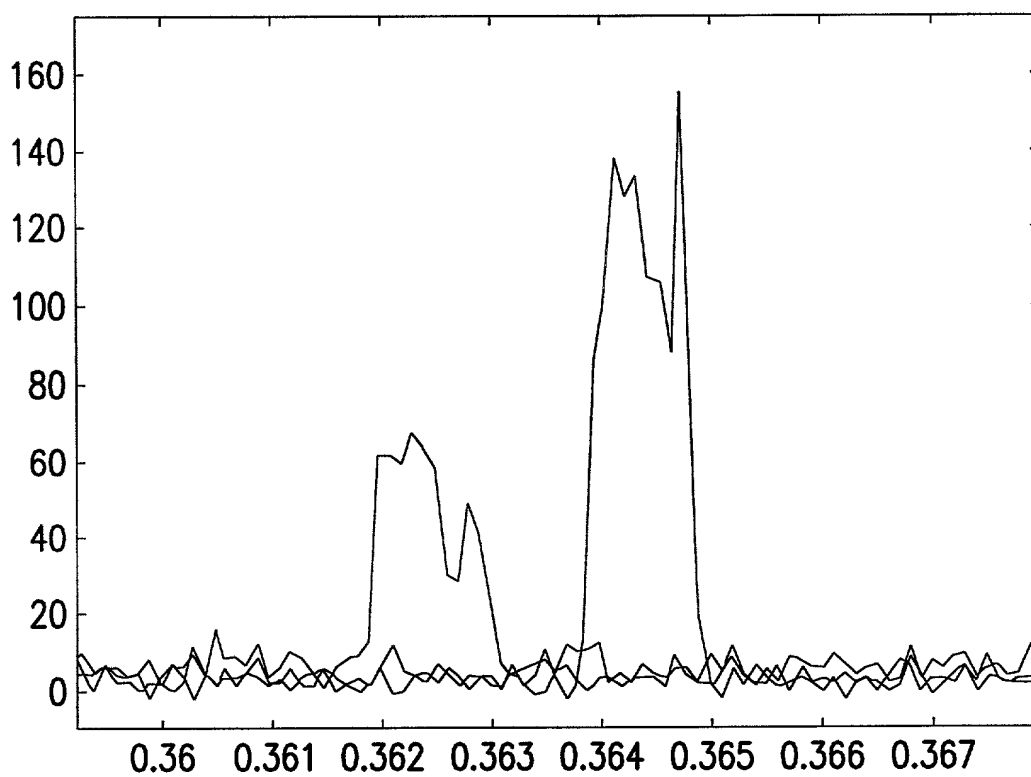


FIG.37B

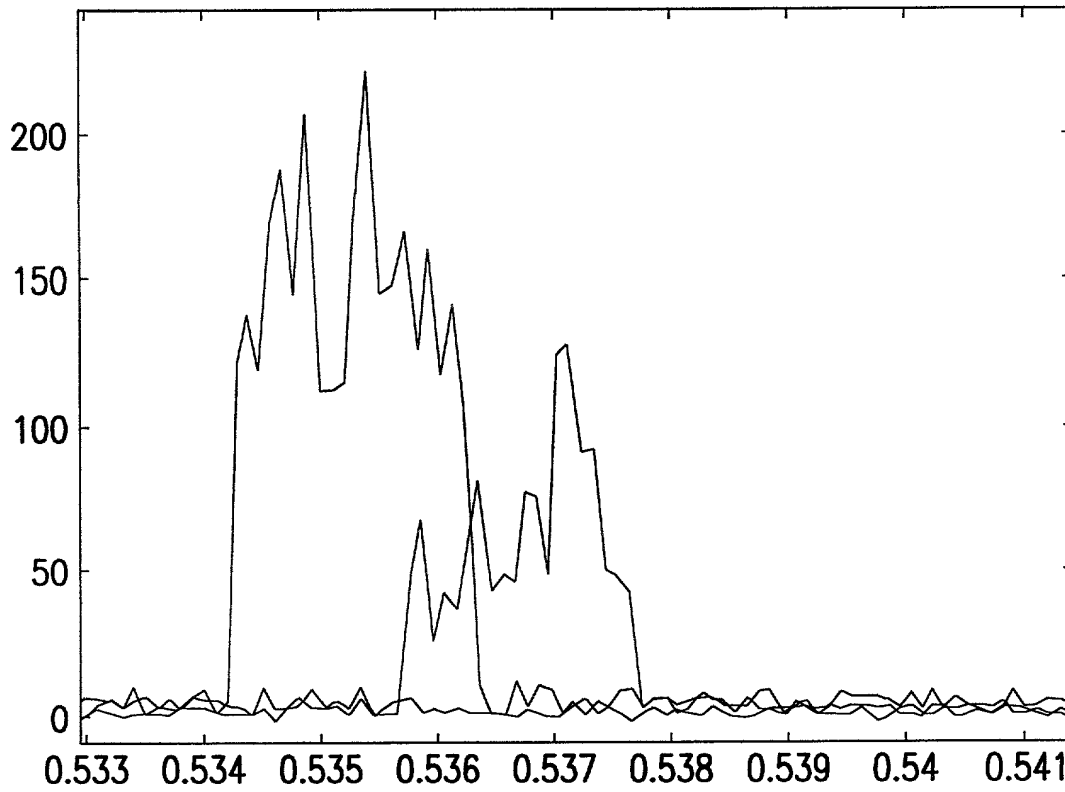
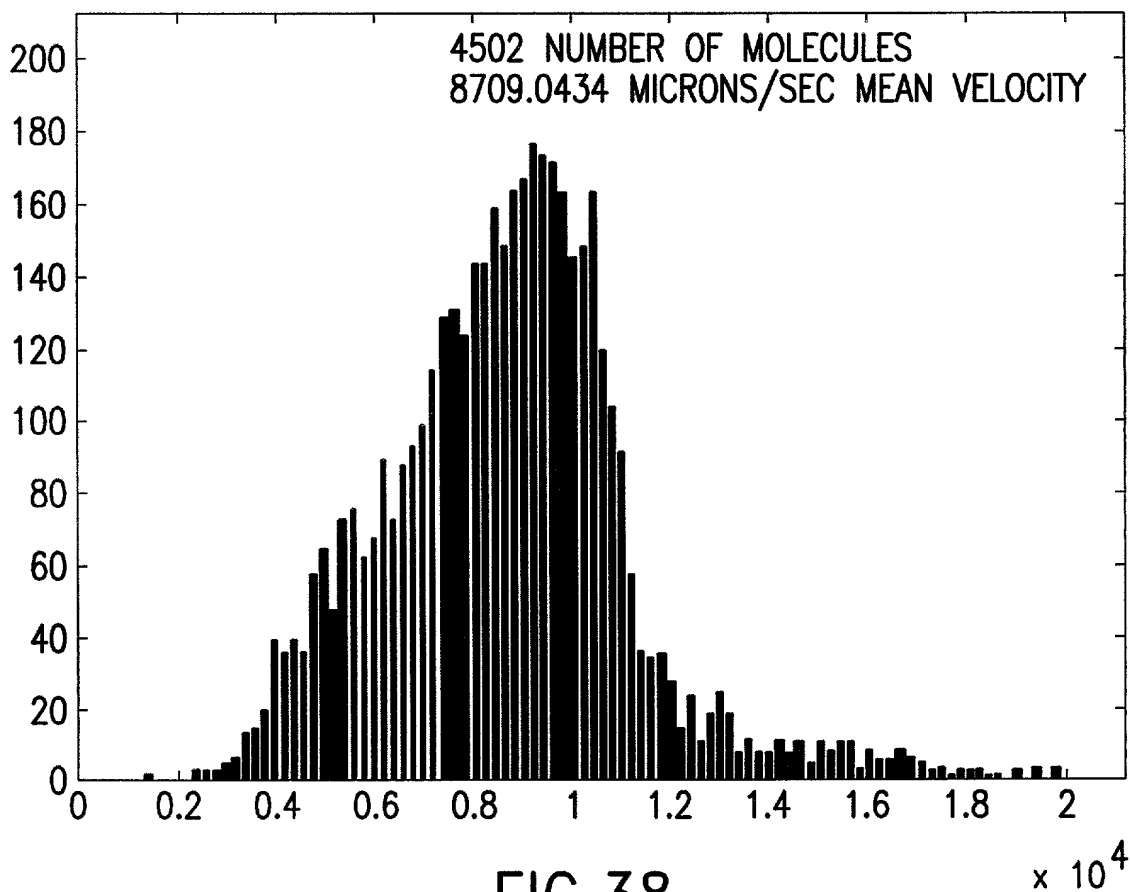


FIG.37C



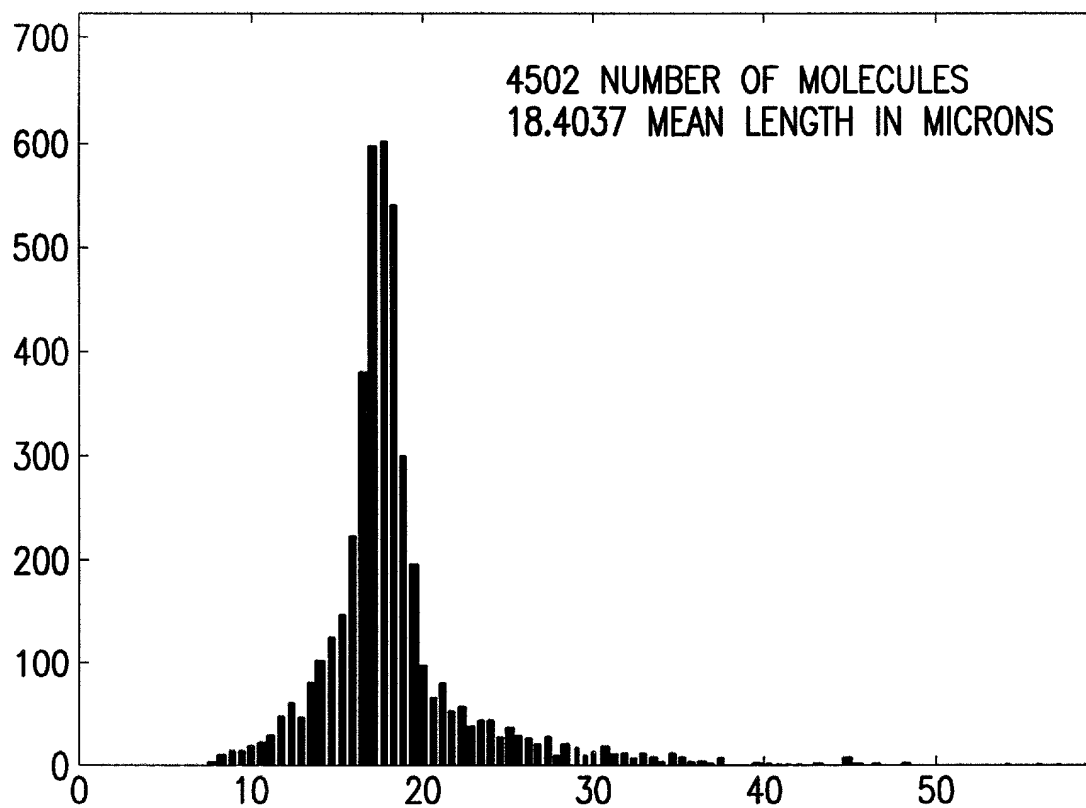


FIG.39